



NORTH·SHORE
COMMUNITY COLLEGE

Real Opportunities

Winter/Spring 2012 Credit Courses Master Schedule

Winter/Spring 2012

January 23 – May 16

For the most up-to-date class times and locations please visit www.northshore.edu and click **Find Courses**

NSCC Academic Calendar

Winter-Spring 2012 Semester

Web on for viewing Winter-Spring 2012 credit courses	Oct 31, 2011
Winter-Spring registration begins for credit courses	Nov 7, 2011
Winter-Spring payment due	Dec 7, 2011
January Intersession classes run	Jan 3–28, 2012
Martin Luther King Day–no classes	Jan 16, 2012
Low-enrolled courses canceled	Jan 18, 2012
Classes begin, day and evening	Jan 23, 2012
Deadline to withdraw and receive 100% refund of tuition & fees from 15-week classes	Jan 23–29, 2012
Deadline to withdraw from 15-week classes and receive 100% tuition only	Jan 30–Feb 5, 2012
Deadline to change from audit to credit or credit to audit	Feb 10, 2012
President’s Day–no classes	Feb 20, 2012
Deadline to petition for spring graduate & ensure name in program	Mar 9, 2012
Evacuation Day–no classes day or evening	Mar 16, 2012
Classes in session	Mar 17, 2012
Spring recess, day and evening classes	Mar 18–24, 2012
Classes resume, day and evening	Mar 26, 2012
Patriot’s Day–no classes	Apr 16, 2012
Final Exam Schedule posted on Pipeline Announcements	Apr 17, 2012
Dealine for IP Contracts for Fall 2012	Apr 20, 2012
Last day to drop a credit course or withdraw from the College with a “W” grade	Apr 21, 2012
Day classes end	May 11, 2012
Evening classes end	May 14, 2012
Final Exam period, day classes only	May 14–16, 2012
Summer Session One begins	May 21, 2012
Commencement–no evening classes (4 p.m. or later)	May 24, 2012
Memorial Day–no classes	May 28, 2012

ACCOUNTING

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
ACC101 BASIC ACCOUNTING 1							
<i>Pre: Communications and Mathematics proficiencies</i>							
Introduction of the accounting process for the financial enterprise. Students will gain insight to the value of financial reports in business decision making. Communicative, quantitative, critical-thinking and ethical considerations will be emphasized. Topics include: the framework of accounting, the preparation and analysis of financial statements, transaction analysis for service and merchandising operations, inventories, accounting information systems, internal control, and accounting for cash. General ledger software and other appropriate computer applications may be included. Fulfills open and business electives. (3 hours of lecture per week)							
ACC101	AD	10217	06:30-09:15PM	R	DANVERS	3.0	E BEAN
ACC101	AL	10218	07:00-09:45PM	M	LYNN	3.0	T DUGAN
ACC101	B	10180	09:30-10:20AM	M W F	DANVERS	3.0	J BOSCO
ACC101	J	12174	08:00-09:15AM	T R	DANVERS	3.0	J BOSCO
ACC101	LC	10184	10:30-11:20AM	M W F	LYNN	3.0	S LEAHY
ACC101	LK	10185	09:30-10:45AM	T R	LYNN	3.0	P LOSPENNATO
ACC102 BASIC ACCOUNTING 2							
<i>Pre: ACC101</i>							
A continuation of ACC101 applying communicative, quantitative, and critical-thinking skills to Generally Accepted Accounting Principles. Topics include: accounting for receivables, plant assets, natural resources, intangible assets, investments, payroll, accounting for various types of equity, introductory current and long-term liabilities, partnerships, corporations, and preparation of the Cash Flow Statement. General ledger software and other appropriate computer applications may be included. Fulfills open and business electives. (3 hours of lecture per week)							
ACC102	AD	10226	07:00-09:45PM	M	DANVERS	3.0	K CIGNETTI
ACC102	AL	17472	06:30-09:15PM	T	LYNN	3.0	STAFF
ACC102	L	10938	11:00-12:15PM	T R	DANVERS	3.0	A NEUNER
*ACC102	OL	12846			ONLINE	3.0	M NELSON
*ACC102 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
ACC104 ESSENTIALS OF ACCOUNTING FOR BUSINESS							
<i>Pre: Communications and Mathematics proficiencies</i>							
A one-semester introductory accounting course. Students will use journals, ledgers, and worksheets to summarize transactions and prepare financial statements. Includes maintenance and recordkeeping for checking accounts, petty cash funds, and payroll. The course will include computer software covering the accounting cycle. Fulfills open and business electives.							
ACC104	J	10190	08:00-09:15AM	T R	DANVERS	3.0	S CLINE
ACC106 COMPUTER APPLICATIONS IN ACCOUNTING							
<i>Pre: ACC101 or ACC108 and CPS100 within last 5 years Co: ACC102</i>							
Designed to give students with an accounting background a familiarity with computers and their role in business situations. Provides an overview of accounting terms, concepts, principles, and procedures generally applicable to a business and applies those principles to an integrated accounting software package and Microsoft Excel software. Student must have completed the CPS100 prerequisite within the last five years. Fulfills open and business electives. (3 hours of combined lecture and lab per week)							
*ACC106	AL	10192	06:30-09:15PM	R	TBA	3.0	STAFF
*ACC106 AL uses QuickBooks software.							
ACC108 FINANCIAL ACCOUNTING							
<i>Pre: Communications and Mathematics proficiencies</i>							
Introduction to accounting using financial statements and information as a means of making effective business decisions. Specific topics include GAAP, the accounting transactions, adjusting accounts, merchandise operations, inventories, cash, internal controls, receivables, current and long-term assets and liabilities. The analysis of formal financial statements will be integrated throughout the course. Computer applications, such as spreadsheets, may be included. Fulfills open and business electives.							
ACC108	AD	16060	07:00-09:45PM	M	DANVERS	3.0	STAFF
ACC108	AL	16102	07:00-09:45PM	W	LYNN	3.0	J O'BRIEN
*ACC108	CT	16054	11:30-12:20PM	M W	DANVERS	3.0	Y RONDON
*ACC108 CT is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom meetings.							
ACC108	LB	16055	09:30-10:20AM	M W F	LYNN	3.0	U ARCOS-CASTREJON
ACC108	LL	16533	11:00-12:15PM	T R	LYNN	3.0	U ARCOS-CASTREJON
ACC108	M	16101	12:30-01:45PM	T R	DANVERS	3.0	M NELSON
*ACC108	OL	16056			ONLINE	3.0	M NELSON
*ACC108 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
ACC201 INTERMEDIATE ACCOUNTING 1							
<i>Pre: ACC102 or ACC108</i>							
An in-depth study of accounting concepts, theory, and principles as applied to financial accounting. Focuses on the preparation and analysis of the income statement, balance sheet and statement of cash flows. Emphasis is on accounting issues relating to cash, temporary investments, receivables, inventories, and time value of money. Fulfills open and business electives.							
ACC201	AD	17063	06:30-09:15PM	T	DANVERS	3.0	STAFF
ACC202 INTERMEDIATE ACCOUNTING 2							
<i>Pre: ACC201</i>							
A continuation of ACC201. Topics include analysis of plant assets, intangible assets, current, contingent and long-term liabilities, corporate capital elements, investments, statement of cash flows, and interpretation of accounting data for business decisions. Fulfills open and business electives.							
ACC202	AL	15507	07:00-09:45PM	W	LYNN	3.0	STAFF
ACC203 MANAGERIAL ACCOUNTING							
<i>Pre: ACC102 or ACC108</i>							
Emphasizes the use of cost issues for management to make informed decisions for business planning. Topics include cost classifications, job cost systems, cost behavior, cost-volume-profit analysis, budgeting with variance analysis using standard costs, segment reporting, responsibility accounting, relevant costs for decision making, financial statement analysis, and additional topics may be covered. Fulfills open and business electives.							
ACC203	AD	13018	07:00-09:45PM	W	DANVERS	3.0	E BRADY
ACC203	LE	10237	12:30-01:20PM	M W F	LYNN	3.0	U ARCOS-CASTREJON
ACC203	N	17268	02:00-03:15PM	T R	DANVERS	3.0	STAFF
*ACC203	OL	16057			ONLINE	3.0	M NELSON
*ACC203 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							

ACCOUNTING

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
ACC208 TAXATION							
<i>Pre: ACC101 or ACC108</i>							
Presents an introduction to personal and business taxation. Topics include filing status and dependency determination, income inclusions and exclusions, components of total income, allowable deductions and credits. Introduces taxation of partnerships and corporations. The course may include software with Individual Taxation applications. Fulfills open and business electives.							
*ACC208	AD	10238	07:00-09:45PM	M	DANVERS	3.0	R UNDERWOOD
<i>*This is a Service-Learning course.</i>							

ALH: ALLIED HEALTH

ALH118 THIRD-PARTY REIMBURSEMENT

Pre: Knowledge of Medical Terminology

Examines the third-party billing process utilizing simulated case studies, computer software, and the use of various health insurance claim forms required by third-party payers such as Blue Shield, Medicare, Medicaid, Commercial Carriers, Workers Compensation, and Health Maintenance Organizations. Related terminology, submission of claims, case flow, office policies, the patient registration process, and the use of referrals are reviewed. An overview of the reimbursement process, fee schedules, review of explanation of benefits, coordination of benefits, and collection procedures will also be presented. An introduction to the ADA (American Dental Association) claim form will be included.

ALH118	AL	10158	07:00-09:45PM	W	LYNN	3.0	P O'LEARY
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ALH120 LIVING WITH HEALTH

Pre: Communications proficiency

An introductory course for non-health students which explores the physical, emotional, social, intellectual, and spiritual areas of health. It encourages students to take a proactive stance toward maintaining health through fitness, exercise, and diet. It touches on current health issues such as self-care, aging, substance abuse, and pollution. Fulfills open and liberal arts electives.

*ALH120	OL	10260			ONLINE	3.0	STAFF
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**ALH120 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.*

ALH150 THE DYNAMICS OF HEALTH CARE: PERSONAL AND PUBLIC ISSUES

Pre: Communications proficiency

An introduction to the rapidly changing U.S. health care system and its relationship to the individual and society at large. The course will examine how the health care system has responded to and is shaped by economic, legal, and political policy decisions. Moral and ethical issues that are related to health care delivery decisions will be explored. Fulfills open and liberal arts electives.

ALH150	L	10262	11:00-12:15PM	T R	DANVERS	3.0	STAFF
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ALH156 INTERPERSONAL SKILLS FOR HEALTH PROFESSIONALS

Pre: Communications proficiency

This course is designed to enhance performance of a health care student in a professional, helping relationship within the health care delivery system. Topics include: communication skills, psychological theory, personality theory, stages of human development, and professionalism. (1 hour of lecture per week)

ALH156	R	11052	11:30-12:20PM	M	DANVERS	1.0	STAFF
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ANS: ANIMAL SCIENCE

ANS102 CANINE AND FELINE BEHAVIOR

Pre: Communications and Mathematics proficiencies

This course is designed to provide the student with an understanding of dog and cat behavior, from puppy and kittenhood through their adult lives. Areas to be discussed include dog and cat body language, canine and feline communication, social structure, and stages of puppy and kittenhood. Students will also learn pet owner personalities and how to properly converse with different owners. Solutions to behavior problems will also be explored.

ANS102	M	10710	12:30-01:45PM	T R	DANVERS	3.0	STAFF
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ANS108 MEDICAL TERMINOLOGY FOR ANIMAL SCIENCE 2

Pre: ANS107

This course is a continuation of ANS107. In it students will continue to explore medical terms needed to communicate adequately with veterinary professionals. Areas of specific interest will be terminology dealing with body cavities, surgical procedures, and specific body systems. (1 hour of lecture per week)

ANS108	R	10714	10:30-11:20AM	R	DANVERS	1.0	S MAGESKY
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ANS110 CANINE AND FELINE NUTRITION

Pre: Communications and Mathematics proficiencies

This course is designed to introduce and familiarize the pet care professional student with the many aspects of canine and feline nutrition. Areas to be discussed include the canine and feline digestive system, the nutrients and their functions involved with pet nutrition, analyzing the four types of pet foods, feeding a raw, natural diet and feeding dogs and cats at different stages of their life. (2 hours of lecture per week)

ANS110	R1	16068	09:30-10:20AM	T R	DANVERS	2.0	STAFF
ANS110	R2	10706	10:30-11:20AM	T R	DANVERS	2.0	STAFF

ANS112 ETHICS AND LAW FOR PET CARE PROFESSIONALS

Pre: Communications and Mathematics proficiencies

This course is designed to educate the student about the laws and ethical issues relevant to caring for pets in the state of Massachusetts. Areas to be covered include Mass General Laws Chapters 140 and 272, property laws, labor laws, contract law, release forms, liability and bonding, and OSHA regulations for related industries. Ethical issues involving animal welfare and humane practices, breeding, workplace issues, business issues, competition, and client interests will be discussed. (2 hours of lecture per week)

ANS112	R1	16069	11:30-12:20PM	M W	DANVERS	2.0	STAFF
ANS112	R2	16070	10:30-11:20AM	M W	DANVERS	2.0	STAFF
*ANS112	R3	10705	11:30-12:20PM	T R	DANVERS	2.0	STAFF

**ANS112 R3 is restricted to Veterinary Technology students.*

ANS114 KENNEL HYGIENE AND MAINTENANCE

Pre: Communications and Mathematics proficiencies

This course is designed to familiarize the student with skills and knowledge necessary to operate and maintain a boarding kennel. Areas to be discussed include correct construction for any size boarding kennel, efficient design, environment control, security, sanitation, feeding and watering, exercising, disease prevention, recordkeeping, and customer relations. If time permits, the design and operation of a cattery will also be discussed. (2 hours of lecture per week)

ANS114	R	16071	08:30-10:20AM	F	DANVERS	2.0	STAFF
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ANIMAL SCIENCE

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
ANS116 FUNDAMENTALS OF ANIMAL HEALTH							
<i>Pre: Communications and Mathematics proficiencies</i>							
This course is designed to inform Grooming/Animal Care Specialists students about various, common health conditions related to dogs and cats. Areas to be discussed include skin and coat diseases and treatments, eye and ear diseases and treatments, parasites and their control, pet first aid, canine and feline CPR, infectious diseases, vaccinations, and diabetes. Students will also learn how to give a dog or cat an injection and administer pill and liquid medications.							
ANS116	R1	10708	12:30-01:20PM	M W F	DANVERS	3.0	STAFF
ANS116	R2	16074	11:30-12:20PM	M W F	DANVERS	3.0	STAFF
ANS120 CANINE TRAINING							
<i>Pre: ANS102</i>							
This course is designed to allow the student to take the information learned in behavior and apply it to training dogs. Skills taught will include puppy temperament testing, preventative puppy training, basic obedience commands, training to modify behavior problems, training for AKC good citizenship title, tracking, and basic agility. The student will be introduced to AKC obedience trials, the degrees and titles, and the classes offered. Students are expected to supply their own dogs for the course. More than one dog may be used. (2 hours of lecture per week)							
ANS120	R1	16072	08:30-10:20AM	M	DANVERS	2.0	STAFF
ANS120	R2	16073	08:30-10:20AM	W	DANVERS	2.0	STAFF
ANS120	R3	17581	08:30-10:20AM	F	DANVERS	2.0	STAFF
ANS124 HERPETOLOGY FOR PET CARE PROFESSIONALS							
<i>Pre: Communications and Mathematics proficiencies</i>							
A study of the snakes, lizards, and turtles commonly found as pets with an emphasis on proper environment, housing, nutrition, and disease diagnosis and prevention. Social habits and handling techniques will also be explored. (2 hours of lecture per week)							
ANS124	R	15333	01:00-02:50PM	M	DANVERS	2.0	STAFF
ANS128 AVIAN SCIENCE FOR PET CARE PROFESSIONALS							
<i>Pre: Communications and Mathematics proficiencies</i>							
A study of the categories, varieties, and characteristics of pet birds with an emphasis on proper housing, health issues, nutritional needs, grooming requirements, and handling techniques.							
ANS128	R	16863	10:30-11:45AM	M W	DANVERS	3.0	K KOMISAR
ANS140 VISUAL MERCHANDISING FOR THE ANIMAL CARE INDUSTRY							
<i>Pre: Communications and Mathematics proficiencies</i>							
This course provides basic design fundamentals and develops technical and creative skills to produce attractive displays for students planning careers in retail animal businesses. Topics covered include: characteristics and development of display, merchandising techniques, types of window and interior displays, design elements and principles, display arrangements, props and fixtures, lighting and signage as well as advertising and public relations as applied to animal-related businesses.							
ANS140	J	16573	08:00-09:20AM	T R	DANVERS	3.0	STAFF

ANT: ANTHROPOLOGY

ANT102 CULTURAL ANTHROPOLOGY

Pre: Communications proficiency

Examines the nature of culture in simple tribal communities living in various regions and natural environments on the planet. Inuit/Eskimo peoples of the Arctic, African villagers, Asian cultures, and American Indians of the Americas are groups that may be discussed. Industrial/high-tech cultures will be compared to pre-industrial/low-tech tribal cultures. Fulfills liberal arts, behavioral science, and social science electives.

*ANT102	OL	13815			ONLINE	3.0	K ARFORD
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*ANT102 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

ART: ART

ART102 ART HISTORY AND APPRECIATION

An appreciation of art developed through lectures and discussions about the nature and meaning of art in the human experience. While art is viewed as encompassing many forms, special attention is given to the historical development of architecture, painting, and sculpture, primarily in the Western world. Fulfills liberal arts and humanities electives.

ART102	AL	13039	09:30-12:15PM	S	LYNN	3.0	STAFF
ART102	R1	10266	12:30-03:15PM	F	DANVERS	3.0	J CHISHOLM
ART102	R2	16637	03:30-04:45PM	T R	DANVERS	3.0	STAFF

ART110 BASIC DRAWING 1

Students will practice skill building so that they can delineate the shape and form of objects, the dimension of pictorial space, and qualities inherent in the object or its space. Lectures, discussion, demonstrations and individual critiques are directed to develop an appreciation for drawing that recognizes that activity as a formal statement that functions as a record of individual experience. Fulfills liberal arts, humanities, and open electives.

ART110	AL	10267	06:30-09:15PM	T	LYNN	3.0	STAFF
ART110	BL	16393	06:30-09:15PM	R	LYNN	3.0	STAFF
ART110	LR1	10268	12:30-03:15PM	F	LYNN	3.0	R JANSSON
ART110	LR2	10269	12:30-03:15PM	R	LYNN	3.0	J CHISHOLM
ART110	R1	11173	08:00-10:45AM	T	DANVERS	3.0	J CHISHOLM
ART110	R2	16394	12:30-03:15PM	M	DANVERS	3.0	STAFF
ART110	R3	17274	02:30-05:15PM	M	DANVERS	3.0	R JANSSON

ART111 BASIC DRAWING 2

Pre: ART101 or permission of instructor

The student will use marking or tonal media to practice the placement of images on or within the picture plane depicting the shape of the object. Discussion, demonstration, and individual criticism will provide a basis for analysis of the use of the surface of the picture plane, invented qualities that contribute to the illusion of volume or space, and the use of simulated elements which establish a subjective content to the work. Slide lectures will provide a short history of drawing and recent research in the physiology and psychology of vision. Fulfills liberal arts, humanities, and open electives.

ART111	LR1	10271	12:30-03:15PM	T	LYNN	3.0	STAFF
ART111	LR2	12210	12:30-03:15PM	W	LYNN	3.0	J CHISHOLM
ART111	R	10272	08:00-10:45AM	R	DANVERS	3.0	STAFF

ART

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
ART114 VISUAL DESIGN THEORY							
<i>Pre: Communications proficiency</i>							
Covers design principles and visual organization tools used for the effective placement of design elements into a page. Student will learn about technical and esthetic use of topography as a design and communication tool. Color theory, color psychology design development process, and approaches for drawing two- and three-dimensional images and illustrations are examined. Fulfills open, liberal arts, and humanities electives. (3 hours of lecture per week)							
ART114	LR	12211	12:30-03:15PM	M	LYNN	3.0	J CHISHOLM

ASL: AMERICAN SIGN LANGUAGE

ASL101 ELEMENTARY AMERICAN SIGN LANGUAGE 1							
An introduction to ASL, the native language of deaf people in the United States. Emphasis on basic ASL vocabulary and grammatical rules, manual alphabet and numbers, visual/gestural communication, and information about deaf culture. Fulfills open, liberal arts, humanities, and modern language electives.							
ASL101	AL	10275	04:00-06:45PM	T	LYNN	3.0	STAFF
ASL102 ELEMENTARY AMERICAN SIGN LANGUAGE 2							
<i>Pre: ASL101</i>							
A continuation and refinement of the skills introduced in ASL101. Emphasis will be on acquiring a natural grace of signing, understanding the nuances of deaf culture, and expanding use of ASL vocabulary and grammar. All classes will be taught in ASL. Fulfills open, liberal arts, humanities, and modern language electives.							
ASL102	AL	16679	07:00-09:45PM	T	LYNN	3.0	STAFF

AVS: AVIATION SCIENCE

AVS102 COMMERCIAL PILOT GROUND SCHOOL							
<i>Pre: AVS101, AVS103 Co: AVS104, AVS107</i>							
This FAA-approved Part 141 ground school includes advanced flight concepts, weight and balance, advanced performance, reciprocating and gas turbine engine theory, advanced environmental considerations, aircraft propeller theory and operations, principles of meteorology, airman publications, map projections, pre-flight planning, complex computer and course plotting, advanced radio navigational systems and applications, federal air regulations, use of avionics, cockpit resource management, decision making, communications and emergency procedures. This course prepares students for the FAA Commercial Pilot written examination. (60 hours, 4 hours of lecture per week) Course restricted to Aviation Science Professional Pilot majors.							
AVS102	R	16048	08:30-10:20AM	T R	TBA	4.0	J KREEFT
AVS103 PRIVATE PILOT FLIGHT TRAINING							
<i>Co: AVS101</i>							
Includes approximately 50 hours of flight instruction (dual and solo) covering pre-flight operations, aircraft systems, taxi and ground performance, basic flight maneuvers including takeoffs and landings (normal, soft, and short), stall procedures, emergency operations, cross-country flight, use of radio and navigation equipment under VFR, and control of aircraft by reference to instruments only. This course prepares students for the FAA Private Pilot Practical Flight test. Course restricted to Aviation Science Professional Pilot and Aviation Management majors.							
*AVS103	R	10422	09:00-09:50AM	F	TBA	3.0	J KREEFT
<i>*An Aviation Science Flight Training Fee will be assessed for this course in addition to standard NSCC tuition and fees. For registration information, contact John Kreeft at 978-739-5592.</i>							
AVS104 ADVANCED CROSS-COUNTRY FLIGHT TRAINING							
<i>Pre: AVS101 and AVS103 Co: AVS102, AVS107</i>							
Approximately 50 hours of solo flight training as a private pilot in command to include cross-country flights, night flying, and precision maneuvers utilizing advanced radio navigation under basic VFR flight rules. Each flight is to be greater than 50 nautical miles with a landing at the destination airport. This course meets the cross-country requirement, PIC (pilot in command) for the instrument rating. Course restricted to Aviation Science Professional Pilot majors.							
*AVS104	R	17003	09:00-09:50AM	F	TBA	3.0	J KREEFT
<i>*An Aviation Science Flight Training Fee will be assessed for this course in addition to standard NSCC tuition and fees. For registration information, contact John Kreeft at 978-739-5592.</i>							
AVS107 SIMULATED FLIGHT TRAINING 1							
<i>Pre: AVS101 and AVS103 Co: AVS102 and AVS104</i>							
Introduces the student to the fundamentals of the approved ground trainer (25 hours of dual simulated flight training). Under the supervision of a flight instructor, the student will be familiarized with attitude instrument flying, aerodynamics related to instrument flying, basic flight instruments and electronic aids to instrument flying. Course restricted to Aviation Science Professional Pilot majors.							
*AVS107	R	17004	09:00-09:50AM	F	TBA	2.0	J KREEFT
<i>*An Aviation Science Flight Training Fee will be assessed for this course in addition to standard NSCC tuition and fees. For registration information, contact John Kreeft at 978-739-5592.</i>							
AVS205 COMMERCIAL PILOT FLIGHT TRAINING							
<i>Pre: AVS203, AVS207 and AVS208 Co: AVS204</i>							
Includes approximately 50 hours of flight training including transition to complex aircraft and a review of all maneuvers pertinent to the FAA commercial practical test standards. Introduces chandelles, lazy 8s, spirals, stalls, steep turns and emergency procedures. This course prepares students for the FAA Commercial Pilot Practical Flight test. Course restricted to Aviation Science Professional Pilot majors.							
*AVS205	R	10426	09:00-09:50AM	F	TBA	3.0	J KREEFT
<i>*An Aviation Science Flight Training Fee will be assessed for this course in addition to standard NSCC tuition and fees. For registration information, contact John Kreeft at 978-739-5592.</i>							

AVIATION SCIENCE

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
AVS207 SIMULATED FLIGHT TRAINING 2							
<i>Pre: AVS104 and AVS107 Co: AVS203, AVS208</i>							
Introduces advanced attitude instrument flying, the use of navigation instruments, radio communication equipment and procedures, air traffic control procedures and operation – including en route and approach – and emergency procedures. (25 hours of dual simulated flight training in an approved ground trainer) Course restricted to Aviation Science Professional Pilot majors.							
*AVS207	R	10428	09:00-09:50AM	F	TBA	2.0	J KREEFT
<i>*An Aviation Science Flight Training Fee will be assessed for this course in addition to standard NSCC tuition and fees. For registration information, contact John Kreeft at 978-739-5592.</i>							
AVS208 INSTRUMENT PILOT FLIGHT TRAINING							
<i>Pre: AVS104 and AVS107 Co: AVS203, AVS207</i>							
Approximately 50 hours of flight instruction including control and accurate maneuvering of an airplane solely by reference to instruments, IFR navigation by VOR and ADF systems including ATC instruction and procedures, instrument approaches to minimums using VOR, ADF, and ILS systems, holding procedures, cross-country flying in simulated or actual IFR conditions, simulated emergencies including recovery from unusual attitudes, equipment or instrument malfunctions, loss of communications and missed approach procedures. This course prepares students for the FAA Instrument Practical Flight test. Course restricted to Aviation Science Professional Pilot majors.							
*AVS208	R	10429	09:00-09:50AM	F	TBA	3.0	J KREEFT
<i>*An Aviation Science Flight Training Fee will be assessed for this course in addition to standard NSCC tuition and fees. For registration information, contact John Kreeft at 978-739-5592.</i>							
AVS214 AVIATION LAW AND SAFETY							
<i>Pre: AVS101, AVS103</i>							
A study of national and international aviation law, labor issues, conflict resolution, attributes and behavior of the aviation professional. This course will include a study of career planning, responsibilities of the aviation professional, substance abuse, discrimination in the workplace, environmental issues concerning aviation, aviation safety and changes in regulatory procedures. Course restricted to Aviation Science Professional Pilot and Aviation Management majors.							
AVS214	R	16532	10:45-12:00AM	T R	TBA	3.0	J KREEFT

BIO: BIOLOGY

BIO101 BIOLOGY 1: THE BASICS OF LIFE

Pre: Communications and Mathematics proficiencies

An introduction to the basic principles of biology. The course covers the chemistry of the cell, cell structure and function, cell division, genetics and some evolution. The laboratory is designed to enhance lecture and to develop investigative skills. Fulfills open, liberal arts, and lab science sequence elective when taken with BIO102 or BIO128 and BIO130, or BIO140 or BIO142. (3 hours of lecture, 2 hours of lab per week)

BIO101	AD	10300	07:00-08:50PM 07:00-09:45PM	M W	DANVERS DANVERS	4.0	STAFF
BIO101	AL	16575	06:30-08:20PM 06:30-09:15PM	T R	LYNN LYNN	4.0	STAFF
BIO101	BD	17263	06:30-08:20PM 06:30-09:20PM	R T	DANVERS DANVERS	4.0	STAFF
BIO101	R1	16579	04:30-06:20PM	T	DANVERS	4.0	STAFF
BIO101	C1	10301	10:30-11:20AM 12:30-02:20PM	M W F M	DANVERS DANVERS	4.0	STAFF
BIO101	C2	12898	10:30-11:20AM 12:30-02:20PM	M W F W	DANVERS DANVERS	4.0	STAFF
BIO101	E1	16392	12:30-01:20PM 01:30-03:20PM	M W F W	DANVERS DANVERS	4.0	STAFF
BIO101	E2	16623	12:30-01:20PM 01:30-03:20PM	M W F M	DANVERS DANVERS	4.0	STAFF
BIO101	L1	10302	11:00-12:15PM 12:30-02:20PM	T R T	DANVERS DANVERS	4.0	A BUSCH
BIO101	L2	12000	11:00-12:15PM 12:30-02:20PM	T R R	DANVERS DANVERS	4.0	A BUSCH
BIO101	LA1	10303	08:30-09:20AM 08:30-10:20AM	M W F T	LYNN LYNN	4.0	R WESTPHAL
BIO101	LA2	10304	08:30-09:20AM 08:30-10:20AM	M W F R	LYNN LYNN	4.0	R WESTPHAL
BIO101	LD1	10305	11:30-12:20PM 12:30-02:20PM	M W F M	LYNN LYNN	4.0	STAFF
BIO101	LD2	10308	11:30-12:20PM 12:30-02:20PM	M W F W	LYNN LYNN	4.0	STAFF
BIO101	LG	15072	02:30-03:20PM 03:30-05:20PM	M W F W	LYNN LYNN	4.0	STAFF
BIO101	LJ	17287	08:00-09:15AM 12:30-02:20PM	T R T	LYNN LYNN	4.0	STAFF
BIO101	LJ1	17249	08:00-09:15AM 09:30-11:20AM	T R T	LYNN LYNN	4.0	STAFF
BIO101	LJ2	17250	08:00-09:15AM 09:30-11:20AM	T R R	LYNN LYNN	4.0	STAFF
BIO101	LL1	17045	11:00-12:15PM 12:30-02:20PM	T R T	LYNN LYNN	4.0	A CUTONE
BIO101	LL2	17046	11:00-12:15PM 12:30-02:20PM	T R R	LYNN LYNN	4.0	A CUTONE
BIO101	LM	17264	12:30-01:45PM 02:00-03:50PM	T R R	LYNN LYNN	4.0	STAFF
BIO101	M1	16351	08:30-10:20AM 12:30-01:45PM	R T R	DANVERS DANVERS	4.0	STAFF
BIO101	M2	16581	08:30-10:20AM 12:30-01:45PM	T T R	DANVERS DANVERS	4.0	STAFF

BIOLOGY

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
BIO101	M3	17269	12:30-01:45PM 02:30-04:20PM 02:30-04:20PM	T R T M	DANVERS DANVERS DANVERS	4.0	STAFF
BIO101	R2	17465	01:30-02:20PM 03:00-04:15PM	M W F T R	DANVERS DANVERS	4.0	STAFF
BIO102 BIOLOGY 2: DIVERSITY OF LIFE							
<i>Pre: Communications proficiency and BIO101 or BIO124</i>							
An evolutionary survey of living organisms. Topics include life's beginnings, and unicellular organisms, fungi, plants, invertebrates and vertebrates and how they evolved. Laboratory includes dissection of selected species of the representative phyla. Fulfills open, liberal arts, and when taken with BIO101 or BIO124, the laboratory science sequence electives.							
BIO102	AD	16582	05:00-06:15PM 06:30-08:20PM	M W M	DANVERS DANVERS	4.0	STAFF
BIO102	AL	10309	06:30-08:20PM 06:30-09:15PM	T R	LYNN LYNN	4.0	STAFF
BIO102	R	16584	03:00-04:15PM 04:30-06:20PM	M W W	DANVERS DANVERS	4.0	STAFF
*BIO102	L1	10911	11:00-12:15PM 12:30-02:20PM	T R T	DANVERS DANVERS	4.0	A DODGE
<i>*This is a Service-Learning course.</i>							
*BIO102	L2	10815	12:30-02:20PM 11:00-12:15PM	R T R	DANVERS DANVERS	4.0	A DODGE
<i>*This is a Service-Learning course.</i>							
BIO102	LM1	10316	12:30-01:45PM 10:30-12:20PM	T R T	LYNN LYNN	4.0	R WESTPHAL
BIO102	LM2	12900	12:30-01:45PM 10:30-12:20PM	T R R	LYNN LYNN	4.0	R WESTPHAL
BIO102	M1	16895	12:30-01:45PM 10:00-11:50AM	T R T	DANVERS DANVERS	4.0	D DAVIS
BIO102	M2	17202	12:30-01:45PM 10:00-11:50AM	T R R	DANVERS DANVERS	4.0	D DAVIS
BIO103 ANATOMY AND PHYSIOLOGY 1							
<i>Pre: Communications and Mathematics proficiencies and BIO101 or BIO105 with C or better or equivalent</i>							
This is the first semester of a one-year course that studies the human body. It is primarily designed for those students pursuing majors in the health professions. Topics include tissues, and the skeletal, muscular, and nervous systems including the organs of special sense, and a review of basic chemistry and cellular structure and function. Laboratory work is designed to supplement the lecture material. Fulfills open, liberal arts, and when taken with BIO104, the laboratory science sequence electives. (3 hours of lecture and 2 hours of laboratory per week)							
BIO103	AD	12661	06:30-08:20PM 06:30-09:15PM	W M	DANVERS DANVERS	4.0	STAFF
BIO103	AL	10322	06:30-08:20PM 06:30-09:15PM	R T	LYNN LYNN	4.0	STAFF
BIO103	BD	16894	04:30-05:45PM 07:00-08:50PM	T R T	DANVERS DANVERS	4.0	STAFF
BIO103	A1	10325	08:30-09:20AM 10:30-12:20PM	M W F M	DANVERS DANVERS	4.0	A DODGE
BIO103	A2	12907	08:30-09:20AM 10:30-12:20PM	M W F W	DANVERS DANVERS	4.0	A DODGE
BIO103	LA1	15073	08:30-09:20AM 12:30-02:20PM	M W F M	LYNN LYNN	4.0	A CUTONE
BIO103	LA2	15074	08:30-09:20AM 12:30-02:20PM	M W F W	LYNN LYNN	4.0	A CUTONE
BIO103	LB	17259	09:30-10:20AM 10:30-12:20PM	M W F F	LYNN LYNN	4.0	STAFF
BIO103	R2	16352	09:30-11:20AM 11:30-12:20PM	F M W F	DANVERS DANVERS	4.0	A BUSCH
BIO103	R3	16586	08:30-10:20AM 11:30-12:20PM	W M W F	DANVERS DANVERS	4.0	A BUSCH
BIO103	R4	16874	11:30-01:20PM 01:30-02:20PM	F M W F	DANVERS DANVERS	4.0	STAFF
BIO104 ANATOMY AND PHYSIOLOGY 2							
<i>Pre: BIO103 with C or better</i>							
Continuation of Anatomy and Physiology 1. Topics include the digestive, respiratory, urogenital, and circulatory systems and the endocrines. Laboratory work is designed to supplement the lecture material and includes dissection of the fetal pig. Fulfills open, liberal arts, and when taken with BIO103, laboratory science sequence electives. (3 hours of lecture and 2 hours of lab per week.)							
BIO104	AD	10337	06:30-08:20PM 06:30-09:15PM	T R	DANVERS DANVERS	4.0	STAFF
BIO104	AL	10336	06:30-08:20PM 06:30-09:15PM	R T	LYNN LYNN	4.0	STAFF
BIO104	BD	12657	08:30-11:15AM 07:00-08:50PM	S W	DANVERS DANVERS	4.0	STAFF
BIO104	LB1	16589	09:30-10:20AM 10:30-12:20PM	M W F F	LYNN LYNN	4.0	A CUTONE
BIO104	LR	13715	02:00-03:15PM 03:30-05:20PM	T R T	LYNN LYNN	4.0	STAFF
BIO104	R1	10341	09:30-11:20AM	M	DANVERS	4.0	STAFF
BIO104	R3	12910	12:00-01:15PM 08:00-09:50AM 10:30-11:45AM	M W R W F	DANVERS DANVERS DANVERS	4.0 4.0 4.0	STAFF STAFF K GORCZYCA

BIOLOGY

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
BIO104	R4	10339	08:00-09:50AM 10:30-11:45AM	T W F	DANVERS DANVERS	4.0	K GORCZYCA
BIO108 THE BODY IN HEALTH AND DISEASE							
<i>Pre: Communications proficiency</i>							
A study of the interrelationships of anatomy, physiology, and pathology with chemical and microbiological consideration for students in the health care field. Primarily for mental health technicians, medical secretaries, and public and environmental health officers. Fulfills open and liberal arts electives. (3 hours of lecture per week)							
BIO108	AL	10342	09:30-12:15PM	S	LYNN	3.0	STAFF
BIO108	BL	17235	06:30-09:15PM	R	LYNN	3.0	STAFF
BIO108	C	10344	10:30-11:20AM	M W F	DANVERS	3.0	STAFF
BIO108	LL	10343	11:00-12:15PM	T R	LYNN	3.0	STAFF
BIO108	R	17587	08:30-09:45AM	M W	DANVERS	3.0	STAFF
BIO110 INTRODUCTION TO MICROBIOLOGY							
<i>Pre: BIO101 or 103 or 105, BIO124 or CHE101, or 103</i>							
A study of viruses, bacteria, protozoans, and the lower fungi with special emphasis on their environmental and medical implications. The course considers the characteristics, ecology, control and impact on humans. The laboratory concentrates on the development of aseptic techniques and the culturing, enumerating, and identification of microorganisms. Fulfills open and liberal arts electives. (3 hours of lecture, 2 hours of lab per week)							
BIO110	B1	14922	09:30-10:20AM 10:30-12:20PM	M W F W	DANVERS DANVERS	4.0	G REPUCCI
BIO110	B2	14923	09:30-10:20AM 10:30-12:20PM	M W F T	DANVERS DANVERS	4.0	G REPUCCI
BIO110	R1	10346	08:30-10:20AM 11:00-12:15PM	T T R	DANVERS DANVERS	4.0	D BEDELL
BIO110	R2	12660	08:30-10:20AM 11:00-12:15PM	R T R	DANVERS DANVERS	4.0	D BEDELL
BIO130 NEOTROPICAL ECOLOGY							
<i>Pre: Communications and Mathematics proficiencies</i>							
A field study in the rainforests of Central America led by trained naturalists. The course will include hikes into different types of rainforests where the ecology of the area will be studied. The areas explored may be different each trip. Fulfills open, liberal arts, and with BIO101 and BIO128, fulfills laboratory science sequence electives. (92 hours of field study and 12 hours of seminar)							
*BIO130	LR	17467			TBA	3.0	STAFF
*Students must have permission from Professor Scott Stimpson to register for this course. Contact information: 978-762-4000 x6288 or sstimpso@northshore.edu.							
BIO140 BIOLOGY 2: MARINE BIOLOGY							
<i>Pre: Communications and Mathematics proficiencies; BIO101</i>							
An introduction to the marine environment with specific consideration given to ecological processes and adaptations. Special emphasis is placed on the New England area. Laboratory includes several field trips. Fulfills open and liberal arts electives and when taken with BIO101, serves as a laboratory science sequence elective. (3 hours lecture, 2 hours lab per week)							
BIO140	LR	10913	01:30-03:20PM 09:30-10:45AM	F M W	LYNN LYNN	4.0	S STIMPSON
BIO202 MOLECULAR BIOLOGY							
<i>Pre: BIO105 with C or better</i>							
This course builds upon the cellular and molecular concepts acquired in General Biology 1. Subjects include Drosophila and yeast tetrad genetics, linkage and mapping studies, anatomy and function of a gene through mutational studies; the Human Genome Project, polymorphisms and positional cloning, systems biology and proteomics, and mitochondrial and chloroplast genomes. The laboratory will introduce the major techniques used in molecular biology. (3 lecture hours and 3 lab hours per week)							
BIO202	R	16097	08:30-09:20AM 12:30-03:20PM	M W F M	DANVERS DANVERS	4.0	D BEDELL
BIO206 HUMAN DISEASES AND CONDITIONS							
<i>Pre: BIO103 or HLS102 with C or better Co: BIO104</i>							
This course presents the symptoms, etiology, diagnoses and treatment of many of the most frequently encountered diseases, conditions and disorders of the human body. Fulfills open and liberal arts electives.							
*BIO206	CT	16591	05:00-06:15PM	T	DANVERS	3.0	STAFF
*BIO206 CT is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom hours.							
BTN: BIOTECHNOLOGY							
BTN202 BIOTECHNOLOGY APPLICATIONS							
<i>Pre: BIO105 and BTN201 with grade of C or better Co: BTN211</i>							
This course is designed to introduce the student to knowledge and skills of basic techniques relevant to the field of Biotechnology. Applications include basic cell culture, protein and nucleic acid separation techniques, transformation, and the use of restriction enzymes in recombinant DNA technology. (2 lecture hours and 4 lab hours per week)							
BTN202	R	15694	12:30-02:20PM 02:00-03:40PM	W F R	DANVERS DANVERS	4.0	STAFF
BTN211 BIOTECHNOLOGY SEMINAR							
<i>Pre: BTN201 Co: BTN202</i>							
This course presents an overview of the Biotechnology Industry. It will include discussions on: the specific fields encompassed by the industry; how a product is advanced from pipeline to market; regulatory agencies overseeing the industry; clinical trials; intellectual property and patents; and the different organizational structures of companies.							
BTN211	R	16092	01:30-02:20PM	T	DANVERS	1.0	STAFF

BUSINESS SCIENCES

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
BUS: BUSINESS SCIENCES							
BUS100 INTRODUCTION TO BUSINESS							
<i>Pre: Communications and Mathematics proficiencies</i>							
Designed to introduce the student to the various aspects of the business world. Topics include economic systems, management principles, organizing concepts, motivation theory, production and quality, marketing principles, accounting concepts, financial management and contracts. Fulfills open and business electives.							
BUS100	AD	14316	07:00-09:45PM	W	DANVERS	3.0	P DARRAGH
*BUS100	CT	17437	05:30-06:45PM	M	LYNN	3.0	M FIOCCOPRILE
<i>*BUS100 CT is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom meetings.</i>							
BUS100	E	14931	12:30-01:20PM	M W F	DANVERS	3.0	Y RONDON
BUS100	J	10876	08:00-09:15AM	T R	DANVERS	3.0	P MANNINEN
BUS100	LC	10197	10:30-11:20AM	M W F	LYNN	3.0	P MANNINEN
BUS100	LK	16104	09:30-10:45AM	T R	LYNN	3.0	Y RONDON
*BUS100	OL	16998			ONLINE	3.0	M FIOCCOPRILE
<i>*BUS100 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
BUS101 MATH FOR BUSINESS AND FINANCE							
<i>Pre: Communications and Mathematics proficiencies</i>							
Utilizes mathematical operations to solve practical business problems. The topics include percents with their applications, cash and trade discounts, markups and markdowns, simple interest, compound interest, present value, annuities and sinking funds, installment buying and revolving credit cards, home ownership cost, and reading and analyzing financial statements. Other topics may be covered. Fulfills open and business electives.							
BUS101	AD	10240	06:30-09:15PM	T	DANVERS	3.0	STAFF
BUS101	AL	11135	06:30-09:15PM	R	LYNN	3.0	T WALSH
BUS101	B	13682	09:30-10:20AM	M W F	DANVERS	3.0	Y RONDON
BUS101	L	15921	11:00-12:15PM	T R	DANVERS	3.0	J BOSCO
BUS101	LD	16103	11:30-12:20PM	M W F	LYNN	3.0	S LEAHY
BUS101	LL	10201	11:00-12:15PM	T R	LYNN	3.0	Y RONDON
*BUS101	OL	10241			ONLINE	3.0	J SLATER
<i>*BUS101 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
BUS102 BUSINESS LAW							
<i>Pre: Communications and Mathematics proficiencies</i>							
Introduction to business law with emphasis on the formation of a contract, defenses to avoid contractual liability, discharge of contracts, remedies for breach of contract, introduction to the Uniform Commercial Code, sales, warranties, and consumer protection. Fulfills open and business electives.							
BUS102	AD	10242	06:30-09:15PM	R	DANVERS	3.0	J RICH
BUS102	AL	10245	07:00-09:45PM	W	LYNN	3.0	D WALDRON-DEEGAN
BUS102	B	14705	09:30-10:20AM	M W F	DANVERS	3.0	N GERARDI
BUS102	K	10204	09:30-10:45AM	T R	DANVERS	3.0	D STASIO
BUS102	LA	16058	08:30-09:20AM	M W F	LYNN	3.0	A BONIN
BUS102	LM	10206	12:30-01:45PM	T R	LYNN	3.0	J RICH
*BUS102	OL	17000			ONLINE	3.0	A NEUNER
<i>*BUS102 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
BUS106 INTRODUCTION TO EXCEL							
<i>Pre: Communications and Mathematics proficiencies</i>							
This course provides basic training in Microsoft Excel for Windows. Students will learn the essentials of spreadsheet creations, including data entry and editing, formatting, printing, saving, and retrieving worksheets. Other topics include creating and using simple formulas and functions, moving and copying data, Autofill, and Fill Right/Down features. Both business and personal spreadsheet applications geared to class participants will be completed in class. Fulfills open, business, and software electives.							
*BUS106	OL	12862			ONLINE	1.0	B CLARK
<i>*BUS106 OL is a Distance-Learning course with an orientation for details log on to: www.northshore.edu/elearning/campus. This course runs February 6 - March 10. Deadline for 100% refund: February 7. Withdrawal Deadline: February 25.</i>							
BUS116 PERSONAL FINANCE							
<i>Pre: Communications and Mathematics proficiencies</i>							
This course introduces students to the concepts needed to develop and maintain a sound personal financial plan. Topics include building a personal financial statement, applying time value concepts, managing money and credit, and understanding bank interest rates as related to auto and home loans. Students will also examine various investment strategies, learn about asset allocation and build a model personal investment portfolio. Fulfills open and business electives.							
BUS116	AL	17493	07:00-09:45PM	W	LYNN	3.0	J BOSCO
BUS120 COMPUTER APPLICATIONS FOR BUSINESS							
<i>Pre: CPS100 within past 5 years; Communications and Mathematics proficiencies</i>							
This course provides a hands-on experience in the use of business computer applications. Students will gain practical knowledge of the three office suite components most widely used: a spreadsheet, a word processor and a presentation program. Students will also learn the use of a retail management system and a customer relationship management application. Topics include: modifying styles, creating macros and forms, creating formulas, referencing ranges in formulas, referencing cells from other worksheets, inserting and deleting slides, adding animation effects, processing sales transactions and daily point-of-sale functions, defining and configuring basic store-wide parameters such as ordering, inventory, accounts, and creating and using customer knowledge bases.							
BUS120	AD	16536	07:00-09:45PM	M	LYNN	3.0	U ARCOS-CASTREJON
BUS132 BUSINESS WORKPLACE SEMINAR							
<i>Pre: 50% of Program Requirements</i>							
Students will gain first-hand knowledge of various career opportunities and gain an understanding of workplace expectations by participating in such activities as job shadowing, informational interviews, mentoring relationships and/or short-term job-site experiences. Seminar topics will include developing job search skills, researching job sites on the Internet, preparing cover letters and a resumé, participating in mock interviews, and identifying key characteristics/traits needed for success in the workplace.							
*BUS132	OL	12186			ONLINE	1.0	J TERBAN
<i>*BUS132 OL meets January 24 - March 18. Deadline for 100% refund of tuition and fees: January 25. Withdrawal Deadline: March 3. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							

COMPUTER-AIDED DESIGN

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
CAD: COMPUTER-AIDED DESIGN							
CAD101 PRINCIPLES OF COMPUTER-AIDED DESIGN 1							
<i>Pre: Communications and Mathematics proficiencies</i>							
Presents an introduction to computer-aided drafting and design systems and their applications. Topics include point, line, arc and circle generation using a variety of techniques for positioning, moving and copying geometry. Commands are presented for the manipulation of the display and its contents to prepare multiple view part drawings complete with dimensions, annotations and borders. Laboratory work includes the use of a microcomputer workstation. AutoCAD software is used throughout the course.							
CAD101	AL	16594	06:30-09:15PM	T R	LYNN	4.0	STAFF
CAD102 PRINCIPLES OF COMPUTER-AIDED DESIGN 2							
<i>Pre: CAD101</i>							
This course will expand upon the topics presented in CAD101. Symbols, diagrams, parts, assemblies, and standards are discussed. Working, assembly and/or pictorial drawings of objects are drawn with sections, revolutions, and breaks as required. Three-dimensional models are drawn using solids and wireframe techniques. Models are rendered, complete with lighting and scenes. Models are prepared for export to CAD-related software products. The AutoCAD software is used throughout the course.							
*CAD102	OL	10908			ONLINE	4.0	STAFF
*CAD102 OL is a Distance-Learning class with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
CFS: CULINARY ARTS AND FOOD SERVICE							
CFS101 BASIC CULINARY TECHNIQUES							
<i>Pre: Communications and Mathematics proficiencies</i>							
This five-week course is designed to introduce students to tool and equipment handling and the basic operations of cooking. Individual classes focus on the following techniques: braise/stew; broil/grill/roast; poach/boil/steam; and sauté/pan fry/deep fry.							
*CFS101	R1	13024	08:00-01:20PM	M T	AGGIE	2.0	J CRISTELLO
*CFS101 R1 meets January 23 - February 21. Deadline for 100% refund of tuition and fees: January 23. Withdrawal Deadline: February 9. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.							
*CFS101	R2	17002	08:00-01:20PM	W R	AGGIE	2.0	J CRISTELLO
*CFS101 R2 meets January 25 - February 23. Deadline for 100% refund of tuition and fees: January 25. Withdrawal Deadline: February 11. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.							
CFS102 FOOD FABRICATION AND PRODUCTION (Meat/Poultry/Fish Fabrication and Production)							
<i>Pre: Communications proficiency Co: CFS101</i>							
Students will learn to identify meat, poultry and fish structure, primal and sub-primal cuts, methods of cutting and grading, and the proper cooking methods for each.							
*CFS102	R1	12866	08:00-01:20PM	M T	AGGIE	2.0	J CRISTELLO
*CFS102 R1 meets February 27 - April 3. Deadline for 100% refund of tuition and fees: February 27. Withdrawal Deadline: March 14. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.							
*CFS102	R2	16709	08:00-01:20PM	W R	AGGIE	2.0	E RICE
*CFS102 R2 meets February 29 - April 5. Deadline for 100% refund of tuition and fees: February 29. Withdrawal Deadline: March 17. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.							
CFS104 INTRODUCTION TO BREADS, PASTRIES, AND DESSERTS							
<i>Pre: Communications and Mathematics proficiencies</i>							
This five-week course introduces the student to the tools, machines, equipment and procedures commonly found in a commercial bakeshop. It covers weights and liquid measures and basic ingredients to produce bread dough, cookie dough and other basic bakery products. Emphasis will be placed on working with yeast-raised dough, as well as basic mixing procedures used in preparing cookies, cakes and other common dough.							
*CFS104	R	15029	08:00-01:20PM	W R	AGGIE	2.0	C NAFFAH
*CFS104 R meets February 29 - April 5. Deadline for 100% refund of tuition and fees: February 29. Withdrawal Deadline: March 17. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.							
CFS106 BAKING PRODUCTION AND MERCHANDIZING OF BAKERY PRODUCTS							
<i>Pre: CFS104</i>							
This five-week course covers the fundamentals of producing bakeshop products for commercial purposes. Topics include application of timesaving steps in the production process and adjustments to formulas and temperatures to meet different product yields. Product arrangement, cross-merchandizing, shelf life and spoilage will also be addressed.							
*CFS106	R1	16105	08:00-01:20PM	M T	AGGIE	2.0	C NAFFAH
*CFS106 R1 meets January 23 - February 21. Deadline for 100% refund of tuition and fees: January 23. Withdrawal Deadline: February 9. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.							
*CFS106	R2	10759	08:00-01:20PM	W R	AGGIE	2.0	C NAFFAH
*CFS106 R2 meets April 11 - May 10. Deadline for 100% refund of tuition and fees: April 11. Withdrawal Deadline: April 27. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.							
CFS108 TABLE SERVICE							
<i>Pre: Communications and Mathematics proficiencies</i>							
This five-week course deals with the smooth and efficient management of the dining room. On-site instruction is provided as students take part in all aspects of running a dining room, including customer relations, table settings, napkin folding, seating, billing, etc.							
*CFS108	R	12239	08:00-09:55AM 10:15-01:20PM	W R W R	AGGIE AGGIE	2.0	L TIRRELL
*CFS108 R meets February 29 - April 5. Deadline for 100% refund of tuition and fees: February 29. Withdrawal Deadline: March 17. Note: Service uniform is required for this course.							
CFS110 INTRODUCTION TO GARDE MANGER							
<i>Pre: CFS101 Co: CFS102</i>							
All areas of the cold kitchen are explored in this introductory course. These include salads, oils and vinegars, cheeses, pates, cold sauces, aspic, chaud foid, garnishes, and cold buffet presentation.							
*CFS110	R1	12240	08:00-01:20PM	M T	AGGIE	2.0	J CRISTELLO
*CFS110 R1 meets April 9 - May 8. Deadline for 100% refund of tuition and fees: April 9. Withdrawal Deadline: April 30. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.							
*CFS110	R2	16859	08:00-09:50AM 10:00-01:20PM	W R W R	AGGIE AGGIE	2.0	STAFF
*CFS110 R2 meets April 11 - May 10. Deadline for 100% refund of tuition and fees: April 11. Withdrawal Deadline: April 27. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.							

CULINARY ARTS AND FOOD SERVICE

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
CFS114 FOOD SAFETY AND SANITATION							
<i>Pre: Communications and Mathematics proficiencies</i>							
This course is designed to expose students to areas of importance in food safety and sanitation. Material covered will help the students in solving individual problems concerning sanitation and public health. The students will be prepared for the ServSafe certification exam given by the Educational Foundation of the National Restaurant Association. This course is approved for the USDA Food Technology Training Program.							
CFS114	AD	10743	07:00-09:45PM	W	DANVERS	3.0	P MIRANDI
CFS116 BANQUET AND FUNCTION MANAGEMENT							
<i>Pre: Communications and Mathematics proficiencies</i>							
This five-week course will cover the operation of a banquet-style facility. It includes hands-on operation in areas of dealing directly with the public, running a dining room smoothly, and merging kitchen and dining room operations into a pleasing whole.							
*CFS116	R	14318	08:00-09:55AM 10:15-01:20PM	W R W R	AGGIE AGGIE	2.0	L TIRRELL
<i>*CFS116 R meets April 11 - May 10. Deadline for 100% refund of tuition and fees: April 11. Withdrawal Deadline: April 27. Note: Service uniform is required for this course.</i>							
CFS118 STOCKS, SOUPS, AND SAUCES							
<i>Pre: Communications proficiency Co: CFS101, CFS102</i>							
This course focuses on the production of the basic building blocks used in the professional kitchen and their relationship to soups and sauces. Brown and white beef, veal, chicken, fish, and vegetable stocks are prepared from scratch. Various liaisons or thickening agents are covered as well as the classical and petite sauces and their uses as well as a variety of hot and cold soups made from the initial stocks. Fresh herbs and vegetables are introduced as flavor enhancers to finished products. Students will use a variety of large and small kitchen equipment and utensils. Sanitation principles and basic knife skills are emphasized, in addition to weights, measures, accurate yields, and portion control.							
*CFS118	R1	16710	08:00-01:20PM	M T	AGGIE	2.0	STAFF
<i>*CFS118 R1 meets February 27 - April 3. Deadline for 100% refund of tuition and fees: February 27. Withdrawal Deadline: March 14. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.</i>							
*CFS118	R2	13027	08:00-01:20PM	M T	AGGIE	2.0	STAFF
<i>*CFS118 R2 meets April 9 - May 8. Deadline for 100% refund of tuition and fees: April 9. Withdrawal Deadline: April 30. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.</i>							
CFS134 WINE IN THE FOOD INDUSTRY							
<i>Pre: Communications and Mathematics proficiencies</i>							
This course will provide information about the wine producing regions of the world, the type of wine grapes grown in those regions and the wines produced from those grape varieties. In addition to table wines, the course will also cover the regions of the world that produce fortified wines. The importance of wines, both table and fortified, will be emphasized as a key component in the food industry. The cultural use of wines will be a topic for this course. Note: This is not a wine-tasting class.							
*CFS134	R	15060	01:30-03:45PM	T	AGGIE	1.0	STAFF
<i>*CFS134 R meets March 27 - May 8. Deadline for 100% refund of tuition and fees: March 28. Withdrawal Deadline: April 28.</i>							
CFS202 DANISH, CROISSANT, CHOUX, AND PUFF PASTRY							
<i>Pre: CFS104</i>							
This course covers methods of producing various laminate doughs, including puff pastry, croissant and Danish dough. Students will acquire skills in performing the mixing, rollout process and unit preparation of pastry such as figure eights, snails and cream horns. Specialized mixing techniques involved with producing choux pastry for eclairs and cream puffs are also included.							
*CFS202	R1	17005	08:00-01:20PM	W R	AGGIE	2.0	C NAFFAH
<i>*CFS202 R1 meets January 25 - February 23. Deadline for 100% refund of tuition and fees: January 25. Withdrawal Deadline: February 11. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.</i>							
*CFS202	R2	13028	08:00-01:20PM	M T	AGGIE	2.0	C NAFFAH
<i>*CFS202 R2 meets April 9 - May 8. Deadline for 100% refund of tuition and fees: April 9. Withdrawal Deadline: April 30. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.</i>							
CFS204 CLASSICAL BAKING							
<i>Pre: CFS104 Co: CFS106</i>							
Students will incorporate a variety of base products to produce a finished, marketable product line such as cheesecakes, artisan breads and rolls, tortes, mini pastries and specialized cakes that can be used by restaurants, caterers and food service institutions. Many classical and traditional holiday/seasonal items will be produced in class.							
*CFS204	R	16844	08:00-01:20PM	M T	AGGIE	2.0	STAFF
<i>*CFS204 R meets February 27 - April 3. Deadline for 100% refund of tuition and fees: February 27. Withdrawal Deadline: March 14. Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.</i>							
CFS206 A LA CARTE RESTAURANT OPERATIONS							
<i>Pre: CFS102</i>							
Students will run an a la carte restaurant operation that is open to the public. Each student will rotate through all stations, including sautéing, broiling, roasting, expediting, plating and cleaning.							
*CFS206	R	12248	08:00-01:20PM	W R	AGGIE	2.0	J CRISTELLO
<i>*CFS206 R meets February 29 - April 5. Deadline for 100% refund of tuition and fees: February 29. Withdrawal Deadline: March 17. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.</i>							
CFS212 AMERICAN REGIONAL CUISINE							
<i>Co: CFS118 Pre: CFS102</i>							
The regional foods, techniques, and seasonings of the U.S. are explored. Regions covered include New England, the South, the Southwest, the American Heartland, California, the Pacific Northwest, and Hawaii. Specialty areas such as Pennsylvania Dutch Country, southern Florida's Caribbean connection, and New Orleans fall within these regions.							
*CFS212	R	13030	08:00-01:20PM	M T	AGGIE	2.0	L BASSETT
<i>*CFS212 R meets January 23 - February 21. Deadline for 100% refund of tuition and fees: January 23. Withdrawal Deadline: February 9. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course. This is a Service-Learning course.</i>							
CFS214 BUFFET AND SPECIALTY FOOD PREPARATION							
<i>Pre: CFS102</i>							
Topics include the planning, preparation, set-up and break-down of buffets. Domestic, international, holidays, and ethnic buffets will be prepared.							
*CFS214	R	14939	08:00-01:20PM	W R	AGGIE	2.0	STAFF
<i>*CFS214 R meets April 11 - May 10. Deadline for 100% refund of tuition and fees: April 11. Withdrawal Deadline: April 27. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.</i>							

CULINARY ARTS AND FOOD SERVICE

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
CFS216 INTERNATIONAL CUISINE							
<i>Pre: CFS102 Co: CFS118</i>							
The foods, cooking techniques, flavors, and seasonings of selected cuisines from Asia, the Middle East, Africa, Italy, Spain, Portugal, France, the Caribbean, and Latin America are the focus.							
*CFS216	R	10758	08:00-01:20PM	W R	AGGIE	2.0	E RICE
*CFS216 R meets January 25 - February 23. Deadline for 100% refund of tuition and fees: January 25. Withdrawal Deadline: February 11. Note: Students will be charged an additional \$20 food fee. Knife kit and chef uniform are required for this course.							
CFS234 CULINARY ARTS WORKPLACE SEMINAR							
<i>Pre: Communications and Mathematics proficiencies</i>							
Students will have the opportunity to gather first-hand knowledge of various career opportunities and workplace expectations as well as creating applicable tools for the job application process. Question-and-answer sessions with guest speakers from the field will present further opportunities to prepare students for entry into the workplace. Seminar topics will include developing job search skills, preparing cover letters and a resumé, mock interviews, and identifying work ethic components needed for success in the workplace.							
*CFS234	R	15515	01:30-03:30PM	T	AGGIE	1.0	L BASSETT
*CFS234 R meets January 24 - March 6. Deadline for 100% refund of tuition and fees: January 25. Withdrawal Deadline: February 25.							

CHE: CHEMISTRY

CHE101 INTRODUCTORY CHEMISTRY 1

Pre: Communications and MAT101 or 091 with C or better

A survey of basic principles of inorganic chemistry designed for students with little or no previous preparation in chemistry. Topics include: atomic and molecular structure, bonding, chemical reactions, stoichiometry, solutions, acids and bases, pH, and nuclear chemistry. Laboratory work reinforces lecture concepts and deals primarily with introductory laboratory techniques. Fulfills open, liberal arts, and with CHE102, laboratory science sequence electives. (3 hours of lecture, 3 hours of lab per week)

CHE101	AD	10353	07:00-09:45PM	M	DANVERS	4.0	STAFF
			07:00-09:45PM	W	DANVERS		
CHE101	AL	14729	07:00-09:45PM	T	LYNN	4.0	STAFF
			07:00-09:45PM	R	LYNN		
CHE101	BL	16366	08:30-11:15AM	S	LYNN	4.0	STAFF
			06:30-09:20PM	T	LYNN		
CHE101	A1	14334	08:30-09:20AM	M W F	DANVERS	4.0	I BLACK
			12:30-03:20PM	W	DANVERS		
CHE101	A2	16093	08:30-09:20AM	M W F	DANVERS	4.0	I BLACK
			12:30-03:20PM	M	DANVERS		
CHE101	LE	10354	08:00-10:50AM	T	LYNN	4.0	F DAY
			12:30-01:20PM	M W F	LYNN		

CHE102 INTRODUCTORY CHEMISTRY 2

Pre: CHE101 or CHE103 or CHE114 with C or better

Continuation of Introductory Chemistry 1. This course is a survey of organic and biological chemistry. Topics include: structure, nomenclature and reactions characteristic of various classes of organic compounds as they relate to the study of carbohydrates, lipids, proteins, and nucleic acids. Laboratory work reinforces lecture concepts. Fulfills open, liberal arts, and with CHE101, laboratory science sequence electives. (3 hours of lecture, 3 hours of lab per week)

CHE102	AL	17262	06:30-09:20PM	M	LYNN	4.0	STAFF
			06:30-09:20PM	W	LYNN		
CHE102	LA	10361	08:30-09:20AM	M W F	LYNN	4.0	F DAY
			11:30-02:20PM	T	LYNN		
CHE102	R1	10359	12:30-03:20PM	R	DANVERS	4.0	G REPUCCI
			01:00-02:15PM	M W	DANVERS		
CHE102	R2	16578	12:30-03:20PM	T	DANVERS	4.0	G REPUCCI
			01:00-02:15PM	M W	DANVERS		

CHE104 GENERAL CHEMISTRY 2

Pre: CHE103 with grade of C or better

Continuation of General Chemistry 1. Topics include: kinetics, equilibrium (gas phase, acid-base, solubility), thermodynamics, electrochemistry, metallurgy, chemistry of the non-metals, complex ions, and nuclear chemistry. Laboratory work is coordinated with lecture and involves primarily quantitative methods. This course fulfills open, liberal arts, and with CHE103, laboratory science sequence electives. (3 hours of lecture, 3 hours of lab per week)

CHE104	C1	17470	09:30-12:20PM	R	DANVERS	4.0	I BLACK
			10:30-11:20AM	M W F	DANVERS		
CHE104	LC1	10363	08:00-10:50AM	R	LYNN	4.0	F DAY
			10:30-11:20AM	M W F	LYNN		
CHE104	LC2	15738	10:30-11:20AM	M W F	LYNN	4.0	F DAY
			12:30-03:20PM	R	LYNN		

CMP: COMPOSITION

CMP101 COMPOSITION 1

Pre: Placement Exam Score

Emphasis is on developing skills of writing, reading, analytical thinking, and research. Students are introduced to thought-provoking ideas in readings from a variety of disciplines and learn to organize material, analyze ideas, and produce clear writing. Fulfills open and liberal arts electives.

CMP101	AD	10472	07:00-09:45PM	W	DANVERS	3.0	STAFF
CMP101	AL	10474	07:00-09:45PM	W	LYNN	3.0	STAFF
CMP101	BD	10471	05:00-06:15PM	T R	DANVERS	3.0	STAFF
CMP101	BL	10476	06:30-09:15PM	T	LYNN	3.0	STAFF
CMP101	CD	10475	06:30-09:15PM	R	DANVERS	3.0	STAFF
CMP101	CL	10478	07:00-09:45PM	W	LYNN	3.0	STAFF
CMP101	DD	10477	07:00-09:45PM	M	DANVERS	3.0	STAFF

COMPOSITION

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
CMP101	DL	10850	06:30-09:15PM	R	LYNN	3.0	STAFF
CMP101	ED	13070	09:30-12:15PM	S	DANVERS	3.0	STAFF
CMP101	FD	13677	06:30-09:15PM	T	DANVERS	3.0	STAFF
CMP101	FL	13689	09:30-12:15PM	S	LYNN	3.0	STAFF
CMP101	GD	16655	04:00-05:15PM	M W	DANVERS	3.0	STAFF
CMP101	HL	13678	07:00-09:45PM	M	LYNN	3.0	STAFF
*CMP101	PRO	10979	05:00-06:15PM	T R	LYNN	3.0	STAFF
<i>*CMP101 PRO is restricted to Project Enable students.</i>							
CMP101	A	10001	08:30-09:20AM	M W F	DANVERS	3.0	L CARLSON
CMP101	B	10022	09:30-10:20AM	M W F	DANVERS	3.0	STAFF
CMP101	C	10002	10:30-11:20AM	M W F	DANVERS	3.0	STAFF
CMP101	E	10003	12:30-01:20PM	M W F	DANVERS	3.0	S HANLON
CMP101	EL	10958	03:30-06:15PM	T	LYNN	3.0	STAFF
CMP101	F1	10004	01:30-02:20PM	M W F	DANVERS	3.0	L CLARKSON
CMP101	F2	17172	01:30-02:20PM	M W F	DANVERS	3.0	STAFF
CMP101	G	16644	02:30-03:45PM	M W	DANVERS	3.0	STAFF
CMP101	J	10006	08:00-09:15AM	T R	DANVERS	3.0	C KEEBAUGH
CMP101	K	10035	09:30-10:45AM	T R	DANVERS	3.0	J SOFERR
CMP101	L1	10007	11:00-12:15PM	T R	DANVERS	3.0	STAFF
CMP101	L2	16899	11:00-12:15PM	T	DANVERS	3.0	STAFF
			11:00-12:15PM	R	DANVERS		
CMP101	LA	10028	08:30-09:20AM	M W F	LYNN	3.0	M SHERF
CMP101	LB	12917	09:30-10:20AM	M W F	LYNN	3.0	C KEEBAUGH
*CMP101	LC	14732	10:30-11:20AM	M W F	LYNN	3.0	J ZAMPARELLI
<i>*This is a Service-Learning course.</i>							
CMP101	LD1	10553	11:30-12:20PM	M W F	LYNN	3.0	J ZAMPARELLI
CMP101	LD2	10030	11:30-12:20PM	M W F	LYNN	3.0	C KEEBAUGH
CMP101	LE	15526	12:30-01:20PM	M W F	LYNN	3.0	M SHERF
CMP101	LF1	10844	01:30-02:20PM	M W F	LYNN	3.0	C JEAN
CMP101	LF2	10032	01:30-02:20PM	M W F	LYNN	3.0	M SHERF
CMP101	LG1	16656	02:30-03:45PM	M W	LYNN	3.0	STAFF
CMP101	LJ1	10034	08:00-09:15AM	T R	LYNN	3.0	J ZAMPARELLI
CMP101	LJ2	11007	08:00-09:15AM	T R	LYNN	3.0	STAFF
CMP101	LM1	12196	12:30-01:45PM	T R	LYNN	3.0	C JEAN
CMP101	LM2	10037	12:30-01:45PM	T R	LYNN	3.0	STAFF
CMP101	LM3	13072	12:30-01:45PM	T R	LYNN	3.0	STAFF
CMP101	LN	16657	02:00-03:15PM	T R	LYNN	3.0	STAFF
CMP101	LR1	16694	11:00-01:45PM	R	LYNN	3.0	STAFF
CMP101	LR2	16658	01:00-03:45PM	F	LYNN	3.0	STAFF
CMP101	M1	13067	12:30-01:45PM	T R	DANVERS	3.0	STAFF
CMP101	N	16654	02:00-03:15PM	T R	DANVERS	3.0	STAFF
*CMP101	OL1	11006			ONLINE	3.0	T MAGNOLIA
<i>*CMP101 OL1 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
*CMP101	OL2	14393			ONLINE	3.0	STAFF
<i>*CMP101 OL2 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
*CMP101	OL3	17258			ONLINE	3.0	J BURT
<i>*CMP101 OL3 is a Distance Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
*CMP101	OW1	17445			ONLINE	3.0	J BURT
<i>*CMP101 OW1 will be offered during intersession: January 3 - January 28. Deadline for 100% refund of tuition and fees: January 4. Deadline to withdraw: January 14.</i>							
CMP104 COMPOSITION 2: INTRODUCTION TO LITERATURE							
<i>Pre: CMP101</i>							
Emphasis is on analytical and researched writing based on an appreciation of fiction, poetry, and drama. Classic and contemporary authors will be studied. Fulfills open, liberal arts, composition 2, composition-LT, and humanities electives.							
CMP104	AD	10480	06:30-09:15PM	T	DANVERS	3.0	STAFF
CMP104	AL	10482	06:30-09:15PM	R	LYNN	3.0	STAFF
CMP104	BD	10479	07:00-09:45PM	M	DANVERS	3.0	STAFF
CMP104	BL	15318	09:30-12:15PM	S	LYNN	3.0	STAFF
CMP104	CD	10483	07:00-09:45PM	W	DANVERS	3.0	STAFF
CMP104	CL	13075	06:30-09:15PM	T	LYNN	3.0	STAFF
CMP104	DD	13068	06:30-09:15PM	R	DANVERS	3.0	STAFF
CMP104	DL	13680	07:00-09:45PM	M	LYNN	3.0	STAFF
CMP104	ED	16881	09:30-12:15PM	S	DANVERS	3.0	STAFF
CMP104	EL	13076	07:00-09:45PM	W	LYNN	3.0	STAFF
CMP104	FL	16660	04:00-06:45PM	W	LYNN	3.0	STAFF
CMP104	A	11063	08:30-09:20AM	M W F	DANVERS	3.0	B GEOFFRION
CMP104	C	10834	10:30-11:20AM	M W F	DANVERS	3.0	L CARLSON
CMP104	D	12921	11:30-12:20PM	M W F	DANVERS	3.0	L CARLSON
CMP104	E	13681	12:30-01:20PM	M W F	DANVERS	3.0	B GEOFFRION
CMP104	F	13737	01:30-02:20PM	M W F	DANVERS	3.0	STAFF
CMP104	G1	16638	02:30-03:45PM	M W	DANVERS	3.0	STAFF
CMP104	G2	17447	02:30-03:45PM	M W	DANVERS	3.0	STAFF
CMP104	J	10011	08:00-09:15AM	T R	DANVERS	3.0	L CARLSON
CMP104	K1	10024	09:30-10:45AM	T R	DANVERS	3.0	S HANLON
CMP104	K2	12920	09:30-10:45AM	T R	DANVERS	3.0	STAFF
CMP104	L1	14359	11:00-12:15PM	T R	DANVERS	3.0	STAFF
CMP104	L2	10012	11:00-12:15PM	T R	DANVERS	3.0	J SOFERR
CMP104	L3	13340	11:00-12:15PM	T R	DANVERS	3.0	S HANLON
CMP104	LA	15087	08:30-09:20AM	M W F	LYNN	3.0	C JEAN
CMP104	LD	10930	11:30-12:20PM	M W F	LYNN	3.0	J MODUGNO
CMP104	LE	16879	12:30-01:20PM	M W F	LYNN	3.0	C JEAN

COMPOSITION

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
CMP104	LE1	16065	12:30-01:20PM	M W F	LYNN	3.0	STAFF
CMP104	LF	11169	01:30-02:20PM	M W F	LYNN	3.0	STAFF
CMP104	LG	17446	02:30-03:46PM	M W	LYNN	3.0	STAFF
CMP104	LJ	10897	08:00-09:15AM	T R	LYNN	3.0	C JEAN
CMP104	LL	11065	11:00-12:15PM	T R	LYNN	3.0	J ZAMPARELLI
CMP104	LR1	16659	03:30-06:15PM	T	LYNN	3.0	STAFF
CMP104	LR2	16674	03:30-06:15PM	R	LYNN	3.0	STAFF
*CMP104	LT1	10042	10:30-11:20AM	M W F	LYNN	3.0	J SOFERR
<i>*CMP104 LT1 is reserved for students in the Trio Linked Learning program. For information about Trio, call 978-739-5439.</i>							
*CMP104	LT2	10040	11:30-12:20PM	M W F	LYNN	3.0	M MAROLD
<i>*CMP104 LT2 is reserved for students in the Trio Linked Learning program. For information about Trio, call 978-739-5439.</i>							
*CMP104	LV	10975	09:30-10:20AM	M W F	LYNN	3.0	M MAROLD
<i>*CMP104 LV is reserved for students in the Challenges, Choices and Change program.</i>							
CMP104	M	17137	12:30-01:45PM	T R	DANVERS	3.0	STAFF
CMP104	M2	17448	12:30-01:45PM	T R	DANVERS	3.0	STAFF
CMP104	N	16639	02:00-03:15PM	T R	DANVERS	3.0	STAFF
*CMP104	OL1	12022			ONLINE	3.0	L ALTOMARI
<i>*CMP104 OL1 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
*CMP104	OL2	14358			ONLINE	3.0	L ALTOMARI
<i>*CMP104 OL2 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
*CMP104	OL3	15666			ONLINE	3.0	STAFF
<i>*CMP104 OL3 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
CMP104	R	16880	02:30-03:45PM	M W	DANVERS	3.0	STAFF
CMP104	R1	16651	01:30-04:20PM	F	DANVERS	3.0	STAFF
CMP104	R2	16673	03:30-06:15PM	R	DANVERS	3.0	STAFF
*CMP104	T1	10009	09:30-10:20AM	M W F	DANVERS	3.0	L CLARKSON
<i>*CMP104 T1 is reserved for students in the Trio Linked Learning program. For information about Trio, call 978-739-5439.</i>							
*CMP104	T2	17119	11:30-12:20PM	M W F	DANVERS	3.0	L CLARKSON
<i>*CMP104 T2 is reserved for students in the Trio Linked Learning program. For information about Trio, call 978-739-5439. This is a Service-Learning course.</i>							
*CMP104	WT	10974	10:30-11:20AM	M W F	DANVERS	3.0	L CLARKSON
<i>*CMP104 WT is reserved for Women in Transition program students.</i>							
CMP104 COMPOSITION 2: INTRODUCTION TO LITERATURE – HONORS							
<i>Pre: CMP101</i>							
Emphasis is on analytical and researched writing based on an appreciation of fiction, poetry, and drama. Classic and contemporary authors will be studied. Fulfills open, liberal arts, composition 2, composition-LT, and humanities electives.							
*CMP104H	LB	17242	09:30-10:20AM	M W F	LYNN	3.0	J MODUGNO
<i>*CMP104H is an Honors section emphasizing high-level critical-thinking skills. Students do not have to be in the Honors Program to enroll in this course.</i>							
*CMP104H	M	17243	12:30-01:45PM	T R	DANVERS	3.0	T WHITNEY
<i>*CMP104H is an Honors section emphasizing high-level critical-thinking skills. Students do not have to be in the Honors Program to enroll in this course.</i>							
CMP112 COMPOSITION 2: THE SHORT STORY							
<i>Pre: CMP101</i>							
Emphasis is on analytic writing based upon characteristics and content of a variety of short stories. Among the authors whose works may be studied are Hawthorne, Joyce, Bellow, Mason, and Carver. Fulfills open, liberal arts, composition 2, composition-LT, and humanities electives.							
CMP112	AD	10486	06:30-09:15PM	R	DANVERS	3.0	STAFF
*CMP112	OL	14436			ONLINE	3.0	T WHITNEY
<i>*CMP112 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
CMP120 COMPOSITION 2: MASS MEDIA IN COMMUNICATIONS							
<i>Pre: CMP101</i>							
Emphasis is on written reports about communication techniques used by the mass media in America, including newspapers, periodicals, radio, television, and films. Fulfills open, liberal arts, composition 2, and humanities electives.							
CMP120	LL	10561	11:00-12:15PM	T R	LYNN	3.0	A SEARS
CMP122 COMPOSITION 2: CHILDREN'S LITERATURE							
<i>Pre: CMP101</i>							
Emphasis is on analytical writing based upon folktales, poetry, and fiction written for children. Among the authors whose works may be studied are Andersen, Carroll, Mother Goose, Clifton, Silverstein, and Stevenson. Fulfills open, liberal arts, composition 2, composition-LT, and humanities electives.							
CMP122	AD	13069	09:30-12:15PM	S	DANVERS	3.0	STAFF
CMP122	LM	10045	12:30-01:45PM	T R	LYNN	3.0	L MAYA
CMP126 COMPOSITION 2: FILM STUDIES							
<i>Pre: CMP101</i>							
Emphasis is on critical writing about film. The course introduces students to the principles of film criticism and briefly covers the history of international cinema. Classes are devoted to viewing and analyzing specific films within this historical, aesthetic context. Fulfills open, liberal arts, composition 2, and humanities electives.							
*CMP126	OL	13752			ONLINE	3.0	STAFF
<i>*CMP126 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
CMP126	R	10906	12:30-03:45PM	R	DANVERS	3.0	STAFF
CMP148 COMPOSITION 2: LITERATURE AND THE ENVIRONMENT							
<i>Pre: CMP101</i>							
Emphasis is on analytical and experiential writing based on American literary works of all genres that focus on the relationships between humans and the natural world. Among the authors whose works may be studied are Thoreau, Muir, Leopold, Carson, Snyder, Lopez, Williams, Dillard, and Oliver. Fulfills open, liberal arts, humanities, composition 2, and composition 2-LT electives.							
CMP148	AD	17449	06:30-09:15PM	R	DANVERS	3.0	STAFF
*CMP148	LE	17122	12:30-01:20PM	M W F	LYNN	3.0	J MODUGNO
<i>*This is a Service-Learning course.</i>							
*CMP148	M	14968	12:30-01:45PM	T R	DANVERS	3.0	J MODUGNO
<i>*This is a Service-Learning course.</i>							

COMPOSITION

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
CMP150 COMPOSITION II: TECHNICAL WRITING							
<i>Pre: CMP101 with a C or permission of instructor</i>							
An intermediate to advanced writing course focusing on the types of writing frequently done in industry, science, and government, which stresses clear, concise wording and logical organization. Students write mechanical descriptions, letters, abstracts, reports, proposals, and instructions. Class time is divided between lecture/discussion on the writing process and writing workshop activities. Fulfills liberal arts, composition 2, and open electives.							
CMP150	AD	14972	07:00-09:45PM	W	DANVERS	3.0	STAFF
CMP150	LL	14361	11:00-12:15PM	T R	LYNN	3.0	D WILLIAMS
CMP190 CREATIVE WRITING							
<i>Pre: CMP101</i>							
Emphasis is on writing of short fiction, poetry, and drama for the beginning and experienced writer. The goal of the course is for writers to improve writing skills and to produce finished pieces for possible publication. Fulfills open, liberal arts, and humanities electives. Does not fulfill a composition-2 elective.							
*CMP190	LD	11071	11:30-12:20PM	M W F	LYNN	3.0	SHERF
<i>*This is a Service-Learning course.</i>							
*CMP190	OL	14425			ONLINE	3.0	STAFF
<i>*CMP190 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
COM: COMMUNICATION SKILLS							
COM010 PRACTICAL APPLICATIONS FOR COLLEGE							
<i>Pre: ESL019 or ESL084 and 086 with C or C+, or Placement Exam Co: COM011 and COM013</i>							
Provides students with a wide variety of group and individualized activities to develop basic academic and performance skills needed for success in college and on the job. Among topics discussed are: successful academic behaviors, orientation to college, career and life planning, and the development of study skills including time management, note taking, reading/study systems, test preparation, and basic utilization of computers for class projects and assignments. Students identified through the College Assessment Program should enroll in this course in their first semester. This course satisfies no elective requirement.							
COM010	AL	10891	05:00-06:15PM	T R	LYNN	3.0	STAFF
COM010	LR2	11969	11:00-12:15PM	T R	LYNN	3.0	L MAYA
COM010	LR3	15042	09:30-10:20AM	M W F	LYNN	3.0	L MAYA
COM010	LR4	16334	10:30-11:20AM	M W F	LYNN	3.0	K BROWN
COM010	R1	15043	01:30-02:20PM	M W F	DANVERS	3.0	M CARDILLO
COM011 COLLEGE WRITING 1							
<i>Pre: ESL019 or ESL084 and 086 with C or C+, or Placement Exam Co: COM010 and COM013</i>							
Develops writing and critical-thinking skills through a combination of reading, thinking, discussing, and writing on current topics. Instruction emphasizes the use of the writing process to develop both informal and formal paragraphs relevant to personal, academic, and career needs. Students identified through the College Assessment Program should enroll in this course in their first semester. This course fulfills no elective requirement.							
COM011	AL	16120	06:30-09:15PM	R	LYNN	3.0	L PIDEL
COM011	LR2	11971	09:30-10:20AM	M W F	LYNN	3.0	R TUFO
COM011	LR3	15044	08:30-09:20AM	M W F	LYNN	3.0	L MAYA
COM011	LR4	16333	12:30-01:20PM	M W F	LYNN	3.0	C BEDNAR
COM011	R1	15045	10:30-11:20AM	M W F	DANVERS	3.0	B GEOFFRION
COM012 COLLEGE WRITING 2							
<i>Pre: ESL019 or 122 and 124 with B- or COM010, 011, 013 with C Co: COM014</i>							
Provides students with the opportunity to develop skill in expressing complex ideas using basic essay structure. Students will practice all steps of the writing process, develop skill in analyzing and integrating source material into thoughtful compositions in standard English and meet individual goals for writing improvement. Students identified through the College Assessment Program should enroll in this course in their first semester. This course satisfies no elective requirement.							
COM012	AL	10892	07:00-09:45PM	M	LYNN	3.0	B KLEMER
COM012	BL	12665	07:00-09:45PM	M	LYNN	3.0	R TOMAILOLO
*COM012	GRE	17456	07:00-09:45PM	W	LYNN	3.0	C BEDNAR
<i>*COM012 GRE is reserved for students in the Project Grad program.</i>							
*COM012	GRM	17150	07:00-09:45PM	W	LYNN	3.0	C DIAZ
<i>*COM012 GRM is reserved for students in the Project Grad program.</i>							
*COM012	GRB	17238	07:00-09:45PM	W	LYNN	3.0	STAFF
<i>*COM012 GRB is reserved for students in the Project Grad program.</i>							
COM012	LR1	10222	08:30-09:20AM	M W F	LYNN	3.0	K BROWN
COM012	LR2	10223	11:30-12:20PM	M W F	LYNN	3.0	C BEDNAR
*COM012	LR3	10225	11:00-12:15PM	T R	LYNN	3.0	B GEOFFRION
<i>*This is a Service-Learning course.</i>							
COM012	LR4	10257	09:30-10:20AM	M W F	LYNN	3.0	C BEDNAR
*COM012	LR5	14384	09:30-10:45AM	T R	TBA	3.0	B GEOFFRION
<i>*This is a Service-Learning course.</i>							
COM012	LR6	16114	10:30-11:20AM	M W F	LYNN	3.0	R GREEN
COM012	R1	10219	09:30-10:20AM	M W F	DANVERS	3.0	B GEOFFRION
COM012	R2	10220	11:30-12:20PM	M W F	DANVERS	3.0	K YANCHUS
COM012	R3	15899	08:00-09:15AM	T R	DANVERS	3.0	R GREEN
COM013 COLLEGE READING 1							
<i>Pre: ESL019 or ESL084 and 086 with C or C+, or Placement Exam Co: COM010 and COM011</i>							
Develops basic reading skills using a broad cross section of articles written in response to current issues or events. Students improve their ability to comprehend factual material, build confidence in their ability to learn independently, and gain new perspectives and broaden horizons. Students employ effective reading strategies to improve concentration, identify and resolve comprehension problems, analyze and organize author's ideas, evaluate them critically, and record them for future use. By meeting the academic and behavioral challenges of this course, students will develop the skills, habits, and attitudes necessary for success in college. Students identified through the College Assessment Program should enroll in this course in their first semester. This course satisfies no elective requirement.							
COM013	AL	10451	06:30-09:15PM	T	LYNN	3.0	STAFF
COM013	LR2	11973	12:30-01:45PM	T R	LYNN	3.0	R TUFO
COM013	LR3	15047	11:30-12:20PM	M W F	LYNN	3.0	D MEALEY
COM013	LR4	16335	09:30-10:45AM	T R	LYNN	3.0	C BEDNAR
COM013	R1	15048	12:30-01:20PM	M W F	DANVERS	3.0	STAFF

COMMUNICATION SKILLS

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
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COM014 COLLEGE READING 2

Pre: ESL019 or 122 and 124 with B- or COM010, 011, 013 with C Co: COM012

Students will improve their literal comprehension and ability to learn from college textbooks by applying their critical-reading skills to college-level material. Through extensive practice, they will develop the ability to understand inference in literature, to synthesize ideas obtained from a variety of media, and use reading as a tool for independent learning. In meeting the academic and behavioral standards for this course, students will develop the skills, attitudes, and habits necessary for success in college. Students identified through the College Assessment Program should enroll in this course in their first semester. This course satisfies no elective requirement.

COM014	AL	10893	07:00-09:45PM	W	LYNN	3.0	M ALLEN
COM014	BL	12666	07:00-09:45PM	W	LYNN	3.0	S DUNN
*COM014	GRB	17239	09:30-12:15PM	S	LYNN	3.0	K SULLIVAN
*COM014 GRB is reserved for students in the Project Grad program.							
*COM014	GRE	17455	09:30-12:15PM	S	LYNN	3.0	STAFF
*COM014 GRE is reserved for student in the Project Grad program.							
*COM014	GRM	17151	09:30-12:15PM	S	LYNN	3.0	C DIAZ
*COM014 GRM is reserved for students in the Project Grad program.							
COM014	LR1	10232	10:30-11:20AM	M W F	LYNN	3.0	R TUFO
COM014	LR2	10230	10:30-11:20AM	M W F	LYNN	3.0	C BEDNAR
COM014	LR3	10234	09:30-10:45AM	T R	LYNN	3.0	R TUFO
COM014	LR4	10259	11:30-12:20PM	M W F	LYNN	3.0	R GREEN
COM014	LR5	15049	08:30-09:20AM	M W F	LYNN	3.0	R TUFO
COM014	LR6	16115	12:30-01:20PM	M W F	LYNN	3.0	R GREEN
*COM014	R1	10228	08:30-09:20AM	M W F	DANVERS	3.0	K YANCHUS
*COM014 R1 is a Service-Learning course.							
*COM014	R2	10227	09:30-10:20AM	M W F	DANVERS	3.0	K YANCHUS
*COM014 R2 is a Service-Learning course.							
COM014	R3	15900	09:30-10:45AM	T R	DANVERS	3.0	R GREEN

COM099 BASIC COMMUNICATIONS

Pre: Placement Exam Score

Students acquire the ability to write a clear, unified, and grammatically correct essay. A review of basic writing fundamentals is emphasized. The course integrates reading and writing to enable students to develop and reinforce their communication skills. It helps students apply their skills to other writing activities so they may achieve success in college. Students identified through the College Assessment Program must enroll in this course in their first semester. This course satisfies no elective requirement.

COM099	PRO	10980	05:00-06:15PM	T R	LYNN	3.0	D WILLWERTH
COM099	LD	14431	11:30-12:20PM	M W F	LYNN	3.0	L MAYA

COP: CO-OP/INTERNSHIP**COP202 COOPERATIVE EDUCATION/INTERNSHIP**

Pre: 2.0 CQPA, CMP101 and 27 credits in student's program

Enhances career development and professional growth by integrating classroom study and seminar sessions with a faculty-supervised 120-hour work experience in the student's academic major. Focuses on developing job search skills, work ethics, human relations and communications skills needed for success in the workplace. Course registration is subject to the availability of an approved internship/cooperative education worksite.

*COP202	CT	17558	06:30-09:15PM	T	LYNN	3.0	STAFF
*COP202 CT runs January 24 - February 21. Upon registration, call 978-739-5511 or e-mail Gay Roland at groland@northshore.edu for information and assistance in securing an approved work placement. This hybrid course meets partially online and partially in the classroom and requires a 120-hour internship experience related to the student's academic major. Students will complete their internship hours and online course requirements through the remainder of the semester.							
*COP202	CT1	16051	08:00-09:15AM	T R	LYNN	3.0	B CLARK
*COP202 CT1 runs January 24 - February 23. Upon registration, call 978-739-5511 or e-mail Gay Roland at groland@northshore.edu for information and assistance in securing an approved work placement. This hybrid course meets partially online and partially in the classroom and requires a 120-hour internship experience related to the student's academic major. Students will complete their internship hours and online course requirements through the remainder of the semester. Deadline for 100% refund of tuition and fees: January 25.							
*COP202	CT2	16053	08:00-09:15AM	T R	DANVERS	3.0	L TIRRELL
*COP202 CT2 runs January 24 - February 23. Upon registration, call 978-739-5511 or e-mail Gay Roland at groland@northshore.edu for information and assistance in securing an approved work placement. This hybrid course meets partially online and partially in the classroom and requires a 120-hour internship experience related to the student's academic major. Students will complete their internship hours and online course requirements through the remainder of the semester. Deadline for 100% refund of tuition and fees: January 25.							
*COP202	OL	16052			ONLINE	3.0	J RICH
*COP202 OL requires a mandatory on-campus orientation. For details log on to: www.northshore.edu/elearning/campus . The Cooperative Education Office must approve student's worksite related to academic major. Call 978-739-5511 or e-mail groland@northshore.edu for further information or for assistance in securing an approved work placement.							

COS: COSMETOLOGY**COS802 PRACTICE OF COSMETOLOGY (132 HOURS)**

Encompasses principles of hair design, creating harmony between hairstyles and facial structure, special perming techniques, special effects in highlighting, dimensional and corrective hair color. Includes chemical hair relaxing, soft curl permanent, thermal hair straightening, styling wigs, pedicure and removal of unwanted hair. Salon operations are also covered.

*COS802	R	10829	09:00-02:20PM	M F	AGGIE	4.4	K CHAMPLAIN
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*COS802 R meets January 23 - June 1. Withdrawal Deadline: April 28.

COS804 THEORY AND SCIENCE OF COSMETOLOGY 2 (42 HOURS)

This course includes a basic study of the functions of human cells, a basic knowledge of modern chemistry, skin and nail disorders, electricity and light therapy. A project related to opening and managing a beauty salon is also included.

*COS804	R	10830	08:00-08:50AM	M T W R F	AGGIE	1.4	K CHAMPLAIN
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*COS804 R meets January 23 - June 1. Withdrawal Deadline: April 28.

COSMETOLOGY

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
COS812 ADVANCED COSMETOLOGY PRACTICUM (326 HOURS)							
A laboratory course in a beauty salon setting. Allows the student to practice and develop his/her skills on clients three days a week under close supervision and guidance. Students will consult with clients to determine their needs and preferences. Also trains students to manage their time to provide efficient client service, to practice marketing professional salon products, and to maintain business records related to client services.							
*COS812	R	10831	09:00-02:20PM	T W R	AGGIE	10.9	K CHAMPLAIN
*COS812 R meets January 23- June 1. Withdrawal Deadline: April 28.							

CPS: COMPUTER SCIENCE

CPS099 BASIC COMPUTING

This preparatory course integrates basic computer skills to enable students to become more proficient at using the computer as a tool within the student's learning environment. Helps to integrate basic reading, writing, and math skills to better attain success in studies. Students learn how the computer functions, CAI software and how to use an integrated software package including word processing, spreadsheet and presentation software as well as integrated functions. This course does not fulfill a computer literacy prerequisite. This course satisfies no elective requirements.

CPS099	LJ	10804	08:00-09:15AM	T R	LYNN	3.0	STAFF
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CPS100 FUNDAMENTALS OF COMPUTER CONCEPTS

Pre: Communications and Mathematics proficiencies

An introduction to computer technology, including computer hardware, software, communications concepts, data security, and privacy. A hands-on component will encompass systems software as well as applications software such as word processing, spreadsheets, and presentation software. Fulfills open, liberal arts, and computer science electives. CPS100 may be fulfilled by a challenge exam and 3 liberal arts credits. Credits are not awarded for passing the challenge exam. (3 lecture hours per week)

CPS100	AD	10079	06:30-07:45PM 08:00-09:15PM	T T	DANVERS DANVERS	3.0	STAFF
CPS100	AL	10078	05:30-08:15PM	M	LYNN	3.0	STAFF
CPS100	BD	10081	05:30-06:45PM	W	DANVERS	3.0	STAFF
CPS100	BL	10085	07:00-08:15PM	W	DANVERS	3.0	STAFF
			09:00-10:15AM	S	LYNN		
CPS100	CD	10077	10:30-11:45AM	S	LYNN	3.0	STAFF
			05:15-08:00PM	M	DANVERS		
CPS100	CL	17009	06:30-09:15PM	R	LYNN	3.0	STAFF
CPS100	A	15068	08:00-09:15AM	M W	DANVERS	3.0	STAFF
CPS100	B	15053	09:30-10:45AM	M W	DANVERS	3.0	STAFF
CPS100	J	10099	08:00-09:15AM	T R	DANVERS	3.0	STAFF
CPS100	K	10087	09:30-10:45AM	T R	DANVERS	3.0	STAFF
CPS100	L	10088	11:00-12:15PM	T R	DANVERS	3.0	STAFF
CPS100	LJ	10095	08:00-09:15AM	T R	LYNN	3.0	STAFF
CPS100	LK	16900	09:30-10:45AM	T R	LYNN	3.0	STAFF
CPS100	LL	10923	11:00-12:15PM	T R	LYNN	3.0	STAFF
CPS100	LR	17010	03:30-04:45PM	M W	LYNN	3.0	STAFF
CPS100	LR1	10089	09:30-10:45AM	M W	LYNN	3.0	STAFF
CPS100	LR2	10090	12:30-01:45PM	M W	LYNN	3.0	STAFF
CPS100	LR3	10091	11:00-12:15PM	M W	LYNN	3.0	STAFF
CPS100	LR4	10093	08:00-09:15AM	M W	LYNN	3.0	STAFF
CPS100	M	16383	12:30-01:45PM	T R	DANVERS	3.0	STAFF
*CPS100	OL	10097			ONLINE	3.0	STAFF
*CPS100 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
*CPS100	OW1	11157			ONLINE	3.0	STAFF
*CPS100 OW1 meets January 3 - January 28. Deadline for 100% refund of tuition and fees: January 4. Withdrawal Deadline: January 14. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
*CPS100	OW2	15070			ONLINE	3.0	STAFF
*CPS100 OW2 meets January 3 - January 28. Deadline for 100% refund of tuition and fees: January 4. Withdrawal Deadline: January 14. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
*CPS100	OW3	15892			ONLINE	3.0	STAFF
*CPS100 OW3 meets January 3 - January 28. Deadline for 100% refund of tuition and fees: January 4. Withdrawal Deadline: January 14. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
CPS100	R1	15069	11:00-12:15PM	M W	DANVERS	3.0	STAFF
CPS100	R2	16618	03:30-04:45PM	M W	DANVERS	3.0	STAFF

CPS101 COMPUTER SCIENCE 1 (JAVA 1)

Pre: Communications and Mathematics proficiencies

This course is an introduction to computer programming through the use of the Java programming language. The range of topics includes fundamentals of Java, creation of Java programs, the development and testing environments, Java application programming, and applet programming with Web applications, data types, control structures, arrays (single and multidimensional), and an introduction to objects, classes and methods. Emphasis will be on object-oriented design and programming skills. Topics will be reinforced through exercises in writing programs for varied applications. Fulfills open, liberal arts and computer language electives. Students entering this course should be able to use the Windows Interface to locate, create, and manipulate files, and folders. (4 lecture hours per week)

CPS101	LR1	16382	02:10-03:50PM	M W	LYNN	4.0	STAFF
CPS101	LR2	16619	09:00-10:40AM	M W	LYNN	4.0	A HASSAN
*CPS101	OL	11077			ONLINE	4.0	H GUAN

*CPS101 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

CPS102 COMPUTER SCIENCE 2 (JAVA 2)

Pre: CPS101

This course develops advanced computer programming skills through the use of the Java programming language. Advanced features of the Java language are studied. Topics include object-oriented programming, polymorphism, inner class, interface and abstract class, various string processing, graphics and design strategies, exception handling, debugging, threading and multithreading, files and streams, and the serialization of objects. Topics will be reinforced through exercises in writing programs for varied applications. Fulfills open, liberal arts and computer language electives. (4 lecture hours per week)

CPS102	AL	10807	05:30-09:15PM	R	LYNN	4.0	STAFF
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COMPUTER SCIENCE

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
CPS104 INTRODUCTION TO FLUENCY IN INFORMATION TECHNOLOGY							
<i>Pre: CPS100</i>							
This course focuses on the impact of digital technologies on the lives of individuals, society, and the world, with consideration of related ethical issues. Throughout the course students use technology tools to analyze data, further communication, gather and share information, solve problems, and make informed decisions.							
*CPS104	OL	17586			ONLINE	3.0	STAFF
<i>*CPS104 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
CPS114 ADVANCED MICROSOFT OFFICE							
<i>Pre: CPS100</i>							
This hands-on course uses the advanced features of Microsoft Office to create business documents, analyze data, and present information. The in-depth coverage of Word, Excel, and PowerPoint includes mail merging, templates, advanced graphics, linking and embedding, forms, PivotTable reports, macros, custom functions, Visual Basic for Applications, Lists, What-If Analysis, data exchange between Office applications, collaboration, sharing files, incorporating Web information, customizing Office, and XML features. Fulfills open and software electives. (4 hours of lecture per week)							
*CPS114	OL	10105			ONLINE	4.0	L WERMERS
<i>*CPS114 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus. This is a Service-Learning course.</i>							
CPS122 OPERATING SYSTEMS							
<i>Pre: CPS100</i>							
A comprehensive study of current operating system (OS) technology including the OS architecture, utilities and tools of the OS, file system management and system optimization, system processes, application support, system commands, system documentation, customization, diagnostics, fault tolerance, and features of different OS systems. Emphasis is placed on the efficient use of the OS to monitor, manage and maximize use of system resources, and troubleshooting. Fulfills open and software electives. (4 hours of lecture per week)							
CPS122	LR	10106	11:30-01:10PM	M W	LYNN	4.0	STAFF
CPS124 WEB FLUENCY							
<i>Pre: Communications proficiency</i>							
This hands-on course explores the features of the Internet including the communications software and hardware required to access the Internet. ISPs (Internet Service Providers) and other online services will be evaluated. Popular search tools will be used to locate information on the Web, and websites will be evaluated for accuracy and authenticity. Tools such as audio and video streaming programs, RSS blogs user groups and listservs will be used to search out and download information. HTML and Web page-creation software will be used to create a simple homepage. Societal issues such as universal access, identity theft, and Fair Use will be discussed and emerging technologies will be examined. Fulfills open and software electives. (3 lecture hours per week)							
*CPS124	OL	11116			ONLINE	3.0	STAFF
<i>*CPS124 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
CPS134 INTRODUCTION TO COMPUTER NETWORKS							
<i>Pre: CPS100</i>							
A solid introduction to computer networks including the Internet infrastructure. Topics include network file systems, network models, the functions and features of network operating systems, and the essential management of computer networks. The installation and configuration of client/workstation operating systems in the network are used to reinforce course content. Fulfills open, software and Web development electives. (2 hours of lecture per week)							
*CPS134	OL	14438			ONLINE	2.0	H GUAN
<i>*CPS134 OL meets January 26 - February 23. Deadline for 100% refund of tuition and fees: January 25. Withdrawal Deadline: February 11. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
CPS136 ADVANCED COMPUTER NETWORKS							
<i>Co: CPS134</i>							
Advanced course in computer networks and Internet infrastructure including client-server network, peer-to-peer network, OSI model, network protocols, network file system management, file system security, network administrations and policies, network server management, network services, network performance and fault tolerance. The configuration and administration of client-server networks are used to reinforce the course content. Fulfills open, software, and Web development electives. (4 hours of lecture per week)							
*CPS136	XOL	15506			ONLINE	4.0	H GUAN
<i>*CPS136 XOL meets February 27 - May 5. Deadline for 100% refund of tuition and fees: March 1. Withdrawal Deadline: April 21. This is a Distance-Learning course. For details log on to: www.northshore.edu/elearning/campus.</i>							
CPS138 INTERNET NETWORKING AND SECURITY							
<i>Pre: CPS100</i>							
Students will examine the underlying network technologies behind the Internet and the World Wide Web and what is needed to allow remote machines to communicate with each other. Participants will also learn how to implement and strengthen security procedures on an Internetwork. Topics will include an overview of TCP/IP, HTTP, IP addressing, subnetting, routing, DNS, SSL, proxy servers, firewalls, password protection, and encryption. Students entering this course must be able to use the Windows interface to locate, create, and manipulate files and have a working knowledge of how to use a Web browser to access information on the Web. (4 lecture hours per week)							
*CPS138	OL	11130			ONLINE	4.0	H GUAN
<i>*CPS138 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
CPS140 HTML							
<i>Pre: Communications proficiency</i>							
Emphasis is on using XHTML coding standards to create Web pages that display tables, image maps, frames, and forms. CSS will be used throughout the course to create consistent pages in student websites. Dynamic Web pages will be created using JavaScript and DHTML. (3 lecture hours per week)							
*CPS140	OL	11131			ONLINE	4.0	L WERMERS
<i>*CPS140 OL meets January 23 - March 10. Deadline for 100% refund of tuition and fees: January 25. Withdrawal Deadline: February 25. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
CPS148 XML							
<i>Co: CPS140</i>							
This course will provide students with practical experience developing XML solutions, including writing well-formed XML documents, modeling business requirements using XML, coding XML reserved characters, validating an XML document with a DTD, using entities, capturing user requirements with XML Schemas, and writing XSL templates to transform XML documents into HTML. Fulfills open and software electives. (3 lecture hours per week)							
*CPS148	XOL	11093			ONLINE	3.0	STAFF
<i>*CPS148 OL meets March 26 - May 12. Deadline for 100% refund of tuition and fees: March 28. Withdrawal Deadline: April 28. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							

COMPUTER SCIENCE

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
CPS158 DREAMWEAVER							
<i>Pre: Communications proficiency</i>							
This hands-on course explores the design of websites using Dreamweaver software. Students will define a website, work with text and images, use Dreamweaver's CSS tools, create and style tables, and work with templates and forms. Websites will be published to a server and evaluated as part of the course assignments and projects. Students enrolling in this course should be capable of using the Windows or Mac operating system and have an understanding of basic file management. Fulfills open and software electives. (3 lecture hours per week)							
*CPS158	XOL	16088			ONLINE	3.0	STAFF
*CPS158 XOL meets January 23 - March 10. Deadline for 100% refund of tuition and fees: January 25. Withdrawal Deadline: February 25. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
*CPS158	LR	15121	08:10-09:25AM	M W	LYNN	3.0	STAFF
*This is a Service-Learning course.							
CPS160 ADVANCED DREAMWEAVER							
<i>Pre: CPS158</i>							
This hands-on course explores the design of websites using advanced Dreamweaver features. Students will use Dreamweaver code tools, Spry widgets, and advanced templates. An in-depth coverage of advanced CSS will include using complex selectors and creating CSS layouts. Fulfills open and software electives.							
*CPS160	XOL	16089			ONLINE	3.0	STAFF
*CPS160 XOL meets March 26 - May 12. Deadline for 100% refund of tuition and fees: March 28. Withdrawal Deadline: April 28. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
CPS168 INTRODUCTION TO ACCESS							
<i>Pre: CPS100</i>							
Study of database concepts as applied to MS Access database. Topics include the basic models used by database systems, database design and implementation, relational operations, database reports, menu driven applications, programming, database administration, and database security. Fulfills open, business, and software electives. (2 hours of lecture per week)							
*CPS168	OL	14330			ONLINE	2.0	STAFF
*CPS168 OL is a Distance-Learning class with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
CPS170 DATABASE THEORY AND APPLICATIONS							
<i>Pre: CPS100</i>							
This course is an introduction to database theory and applications. Topics will include database design, foundation for the relational database model, Structured Query Language (SQL), Entity Relationship (E-R) Modeling, normalization, advanced database design and implementation, and file indexing. Fulfills open, Web development and software electives.							
CPS170	OL	17460			ONLINE	4.0	A HASSAN
CPS174 INTRODUCTION TO FLASH							
<i>Pre: Communications proficiency</i>							
This course will cover the features of the Flash interface, including the drawing tools, layers, and scenes. Students will begin with creating frame-by-frame animations and advance to shape and motion tweened movies. The following topics will also be covered: creating and using library symbols, publishing Flash movies, optimization tips, buttons, movie clips, sound, and ActionScript. Fulfills open, software, and Web development electives. (3 lecture hours per week)							
*CPS174	OL	12879			ONLINE	3.0	STAFF
*CPS174 OL meets January 23 - March 10. Deadline for 100% refund of tuition and fees: January 25. Withdrawal Deadline: February 25. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
CPS182 INFORMATION SYSTEMS DISASTER RECOVERY							
An introduction to information systems disaster recovery principles, including preparation of a disaster recovery plan, appropriate countermeasures for information security, development of policies and procedures, implementation of the disaster recovery plan, and recovery from an information systems disaster. Fulfills software and open electives.							
*CPS182	OL	16091			ONLINE	2.0	STAFF
*CPS182 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
CPS210 COMPUTER SYSTEMS DEVELOPMENT							
<i>Pre: CPS100</i>							
Presents the principles and techniques used to study, design, and develop computer systems. The Systems Development Life Cycle is the major focus. Case studies of common business problems which use computerized solutions are presented. Students will use SDLC methods to create solutions to business problems. Hands-on assignments will make use of Computer-Aided Systems Engineering (CASE) tools. Fulfills open and business electives. (4 hours of lecture per week)							
*CPS210	OL	10110			ONLINE	4.0	STAFF
*CPS210 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
CPS222 VISUAL BASIC 1							
<i>Pre: CPS100</i>							
Introduction to programming using Visual Basic. NET. Structured programming and development techniques will be studied. This language provides all the tools needed to create interactive programs for Microsoft Windows applications. Event-driven code will be created and evaluated. Concepts covered will include creation and use of controls, building the user interface, using variables and constants, using the selection structures, modifications of the properties of objects, mathematical functions. Extensive hands-on, independent work will be required. Fulfills open and computer language electives. (4 hours of lecture per week)							
*CPS222	LR	10113	08:30-10:10AM	M W	LYNN	4.0	STAFF
*This is a Service-Learning course.							
CPS223 VISUAL BASIC 2							
<i>Pre: CPS222</i>							
Advanced features of the Visual Basic. NET programming language will be presented including the repetition structure, collections, sub-procedures, sub-functions, passing parameters, the listbox control, adding an existing form to a solution, string manipulation, the menu control, sequential access files, the datetimepicker control, the printdocument control, random access files, variable arrays, database access using a windows form, database access using a Web form. Fulfills open and computer language electives. (4 hours of lecture per week)							
*CPS223	OL	10932			ONLINE	4.0	STAFF
*CPS223 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							

COMPUTER SCIENCE

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
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CPS224 OBJECT-ORIENTED PROGRAMMING IN C++

Pre: CPS101 or CPS103

This is an advanced programming course using C++. Topics covered include functions, pointers, class objects, member functions, constructors, destructors, inheritance, class libraries, virtual functions, polymorphism, OOP and non-OOP code, class hierarchies, friend classes, and overloading. Fulfills open, computer language, engineering, and liberal arts electives. (4 hours of lecture per week)

*CPS224	OL	10114			ONLINE	4.0	A HASSAN
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*CPS224 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.**CPS226 COMPUTER ORGANIZATION AND ARCHITECTURE**

Pre: CPS101 or CPS103

Introduction to computer organization and architecture. Both hardware and software concepts are considered. Emphasis is on the hardware/software interface. Topics include integrated circuits, machine/assembly language concepts, simple RISC and CISC computers, logic designs, processor design, pipelining, data paths, memory systems, and I/O. Fulfills liberal arts elective.

CPS226	LR	17459	11:50-01:30PM	T R	LYNN	4.0	A HASSAN
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CPS240 PROGRAMMING WITH PHP AND MY SQL

Pre: Communications and Mathematics proficiencies Co: CPS140

The fundamentals of PHP programming including some advanced features of the language such as database optimization, Object-Oriented services, and Web Services support. Emphasis is on PHP applications that are portable across database engines.

*CPS240	OL	15054			ONLINE	4.0	STAFF
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*CPS240 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.**CPS242 AJAX**

Pre: CPS140; CPS240

This course introduces students to creating interactive Web pages using Ajax. Hands-on exercises will include programming in JavaScript to download XML from the server and manipulate the XML content. Many Ajax-related technologies will be examined and Ajax Web applications will be built. (3 lecture hours per week)

*CPS242	OL	16614			ONLINE	3.0	STAFF
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*CPS242 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.**CRJ: CRIMINAL JUSTICE****CRJ101 INTRODUCTION TO CRIMINAL JUSTICE**

Introduces students to the study of the criminal justice system. Three components of this system, the police, courts, and corrections, will be studied and interrelationships will be shown between components. Outside readings and guest speakers will combine the practical and academic aspects.

CRJ101	AL	10117	07:00-09:45PM	M	LYNN	3.0	STAFF
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*CRJ101	J	10116	08:00-09:15AM	T R	DANVERS	3.0	F DAGOSTINO
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*This is a Service-Learning course.

*CRJ101	K	10119	09:30-10:45AM	T R	DANVERS	3.0	F DAGOSTINO
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*This is a Service-Learning course.

CRJ101	LJ	10118	08:00-09:15AM	T R	LYNN	3.0	STAFF
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*CRJ101	OL	16997			ONLINE	3.0	M REGAN
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*CRJ101 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.**CRJ103 CRIMINAL LAW**

Pre: Communications proficiency

A study of criminal law, constitutional and statutory provisions, purposes of criminal law, classification of crimes, elements of crimes, defenses available to those accused of crime, and jurisdiction of the courts.

CRJ103	LM	10121	12:30-01:45PM	T R	LYNN	3.0	J LEVESQUE
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*CRJ103	OL1	16075			ONLINE	3.0	A KOSHIVAS
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*CRJ103 OL1 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

CRJ103	R	10122	12:30-01:45PM	M W	DANVERS	3.0	J LEVESQUE
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CRJ105 CONSTITUTIONAL INTERPRETATIONS OF CRIMINAL PROCEDURES 1

Pre: Communications proficiency

A study of leading U.S. Supreme Court decisions as they relate to the law of criminal procedure. Course work begins with an exploration of the 14th Amendment as it applies to the states and continues with the laws of search, seizure, and arrest.

CRJ105	LD	17494	11:30-12:20PM	M W F	LYNN	3.0	STAFF
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*CRJ105	LR	16569	02:30-05:15PM	M W	LYNN	3.0	F DAGOSTINO
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*CRJ105 LR meets January 24 - March 12. Deadline for 100% refund of tuition and fees: January 26. Withdrawal Deadline: February 26.

CRJ106 CONSTITUTIONAL INTERPRETATIONS OF CRIMINAL PROCEDURES 2

Pre: CRJ105

The constitutional topics discussed include: double jeopardy, self-incrimination, the right to counsel, confessions, Miranda warnings, pretrial identification procedures, and rights to a fair trial. The course may also explore special issues of bail, plea bargaining, sentencing, and 8th Amendment rights.

CRJ106	AL	10124	07:00-09:45PM	W	LYNN	3.0	STAFF
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*CRJ106	B	10125	09:30-10:20AM	M W F	DANVERS	3.0	A KOSHIVAS
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*This is a Service-Learning course.

*CRJ106	K	10126	09:30-10:45AM	T R	DANVERS	3.0	A KOSHIVAS
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*This is a Service-Learning course.

*CRJ106	LR1	16696	02:30-05:15PM	M W	LYNN	3.0	F DAGOSTINO
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*CRJ106 LR1 meets March 28 - May 14. Deadline for 100% refund of tuition and fees: March 30. Withdrawal Deadline: April 30.

CRJ106	LR2	17085	12:30-03:20PM	F	LYNN	3.0	F DAGOSTINO
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CRIMINAL JUSTICE

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
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CRJ108 CRISIS INTERVENTION IN THE FIELD OF CRIMINAL JUSTICE

Pre: Communications proficiency

A course in assessing and handling the "disturbance call" crisis. Will cover issues such as family fights, rape calls, crime victimizations, suicide, adolescent problems, alcoholism, and drug abuse. In addition to communication and problem-solving skills, referral techniques will be covered, focusing on agency resources in the area.

CRJ108	AL	10128	06:30-09:15PM	T	LYNN	3.0	STAFF
*CRJ108	K	14326	09:30-10:45AM	T R	DANVERS	3.0	C SOURIS
<i>*This is a Service-Learning course.</i>							
*CRJ108	LC	12158	10:30-11:20AM	M W F	LYNN	3.0	C SOURIS
<i>*This is a Service-Learning course.</i>							

CRJ110 JUVENILE JUSTICE SYSTEM

Pre: Communications proficiency; CRJ101

This course traces the philosophy, history, and development of the juvenile justice system. Particular attention is paid to juvenile institutions and current treatment programs.

CRJ110	AD	14391	07:00-09:45PM	M	DANVERS	3.0	STAFF
*CRJ110	C	10129	10:30-11:20AM	M W F	DANVERS	3.0	A KOSHIVAS
<i>*This is a Service-Learning course.</i>							
CRJ110	LR	10131	12:30-03:15PM	W	LYNN	3.0	STAFF

CRJ201 LAW ENFORCEMENT MANAGEMENT AND PLANNING

Pre: Communications and Mathematics proficiencies; CRJ101

Emphasizes personnel management, records and reports, public relations, budgets and business procedures employed by law enforcement.

CRJ201	AD	14327	06:30-09:15PM	T	DANVERS	3.0	STAFF
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CRJ202 PRINCIPLES OF CORRECTIONS

Pre: Communications proficiency

The study of the development of correction, including the impact of incarceration on the offender and society.

CRJ202	AD	14392	06:30-09:15PM	R	DANVERS	3.0	STAFF
CRJ202	AL	16896	07:00-09:45PM	M	LYNN	3.0	STAFF
*CRJ202	J	12159	08:00-09:15AM	T R	DANVERS	3.0	A KOSHIVAS
<i>*This is a Service-Learning course.</i>							
*CRJ202	LL	10935	11:00-12:15PM	T R	LYNN	3.0	M REGAN
<i>*This is a Service-Learning course.</i>							

CRJ204 SECURITY ADMINISTRATION

Pre: Communications and Mathematics proficiencies; CRJ101

Introduction to security administration, covering the historical and legal framework for security operations on both the private and governmental levels. Includes presentations of security processes and programs currently used to provide security in a democratic society.

*CRJ204	L	10137	11:00-12:15PM	T R	DANVERS	3.0	C SOURIS
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**This is a Service-Learning course.*

CRJ206 CRIMINAL INVESTIGATION

Pre: Communications proficiency

Discusses the elements of crime, with emphasis on police duties, identification of persons and property, interview and interrogation, as well as case construction and presentation.

CRJ206	AD	10138	07:00-09:45PM	W	DANVERS	3.0	STAFF
CRJ206	LR	10139	08:00-09:15AM	M W	LYNN	3.0	STAFF

CRJ208 CRITICAL ISSUES IN CRIMINAL JUSTICE

An opportunity to reflect more deeply on those issues that challenge the criminal justice system. Of particular importance to Criminal Justice students is the need to give careful evaluation on moral values, and how these values can be challenged both on and off the job. This course, therefore, will focus on issues in criminal justice that often ask the professional to make value decisions.

CRJ208	J	16689	08:00-09:15AM	T R	DANVERS	3.0	STAFF
*CRJ208	LM	10142	12:30-01:45PM	T R	LYNN	3.0	M REGAN
<i>*This is a Service-Learning course.</i>							
*CRJ208	OL	14723			ONLINE	3.0	M REGAN
<i>*CRJ208 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
CRJ208	R	10141	12:30-03:15PM	M	DANVERS	3.0	M REGAN

DAN: DANCE

DAN101 CREATIVE DANCE

This introductory course will investigate how dance and physical movement integrates the whole body in a sense of awareness and structure. The art of dance and science of movement will bridge the mind-body-spirit connection to the human body in creative dance. The notion of why and how we move will be contemplated and explored; creative expression will be encouraged; and relationships between dance, music, art and drama will be personally looked at. Dance proficiency is not required to enroll in this course. Fulfills open, liberal arts, and humanities electives.

DAN101	R	12212	02:00-04:45PM	T	DANVERS	3.0	STAFF
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DRA: DRAMA

DRA104 BEGINNING ACTING

Acting for beginners and those who want to develop their skills. Through improvisation, rehearsal and presentation of a scripted scene, students learn to analyze roles and their own personalities. Fulfills open, liberal arts, and humanities electives.

DRA104	M	13670	12:30-01:45PM	T R	DANVERS	3.0	J ROBINSON
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DRAMA

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
DRA105 ACTING, PERFORMANCE, PRODUCTION							
Students proceed through the casting, production and rehearsal process to the public performance of a play or series of scenes with emphasis on ensemble work. Each student learns how to analyze a role and develop a characterization. Individual meetings with the instructor supplement group work on scripts. Fulfills open, liberal arts and humanities electives.							
*DRA105	LM	10562	12:30-01:45PM	T R	LYNN	3.0	STAFF
*DRA105 LM – Acting Performance: Students enrolling in this course must be cast or crew members in the annual Performing Arts Council theater production. Most meetings will be held at night at a rehearsal location to be announced.							
DRG: DRUG AND ALCOHOL REHABILITATION							
DRG201 SUBSTANCE ABUSE COUNSELING FOR INDIVIDUALS							
<i>Pre: DRG101 or permission of instructor</i>							
Covers a variety of skills and techniques at an intermediate level, which are used in individual counseling with a substance abuse client. Students will be taught intake and diagnostic skills, how to deal with denial and other defense mechanisms, the effective use of confrontation, treatment planning and goal setting and involvement of the client in problem solving. Skill building will be reinforced by role-play in each session.							
DRG201	LR	10348	08:00-10:45AM	R	LYNN	3.0	STAFF
DRG202 SUBSTANCE ABUSE COUNSELING FOR GROUPS AND FAMILIES							
<i>Pre: DRG201 and HUS102</i>							
Covers basic group counseling skills in working with addictive personalities. Will cover the types of group treatment available, stages of group development, and the role of the leader. Group issues such as scapegoating and control struggles will be explored. The impact of an addictive family member on the family structure will be explored.							
DRG202	AL	10349	06:30-09:15PM	R	LYNN	3.0	STAFF
DRG206 PREVENTION OF SUBSTANCE ABUSE							
Course includes an overview of historical, substance abuse prevention methods; instruction in availability and use of substance abuse prevention literature; research in substance abuse prevention including school systems and business; primary, secondary, and tertiary prevention processes and practices will be learned.							
DRG206	AD	10884	07:00-09:45PM	M	DANVERS	3.0	STAFF
DRG206	LL	10352	11:00-12:15PM	T R	LYNN	3.0	H SYLVETSKY
DRG206	LR	16395	08:00-09:15AM	M W	LYNN	3.0	H SYLVETSKY
DRG223 FIELD PLACEMENT AND SEMINAR 3 IN DRUG AND ALCOHOLISM REHABILITATION							
<i>Pre: DRG221 and DRG222 Co: DRG224</i>							
An off-campus learning experience of 120 hours of work and 2 hours per week of on-campus seminar in a new substance abuse agency with the focus upon substance abuse case presentation competencies. The students will be expected to expand their self-awareness as they deal with their work environment.							
DRG223	LR	10356	09:30-11:20AM	M	LYNN	3.0	H SYLVETSKY
DRG224 FIELD PLACEMENT AND SEMINAR 4 IN DRUG AND ALCOHOLISM REHABILITATION							
<i>Pre: DRG221 and DRG222 Co: DRG223</i>							
Field placement learning continues in the cooperating agency. The students will assess through their fieldwork, all the skills learned in the drug and alcohol program and to develop a career plan which clearly looks at all types of employment this field offers. (120 field placement hours per semester and 2 seminar hours per week)							
DRG224	LR	10358	09:30-11:20AM	W	LYNN	3.0	H SYLVETSKY
DTC: NUTRITIONAL SCIENCE AND DIET TECHNOLOGY							
DTC102 NUTRITION FOR HEALTHY LIVING							
<i>Pre: Communications proficiency</i>							
An introduction to the nutritional needs of the healthy human body. The course is designed to provide an understanding of nutrients essential for energy, growth and maintenance. Discussion will be promoted to develop conclusions concerning food additives, food facts, and food fads. The student will learn the facts necessary to plan well-balanced meals for himself/herself and others.							
DTC102	AD	11059	06:30-09:15PM	M	DANVERS	3.0	STAFF
DTC104 NUTRITION FOR THE LIFE CYCLE							
<i>Pre: DTC102</i>							
A nutrition education course to provide material for lifelong health maintenance. Nutritional needs for each of the life stages from pregnancy through senescence, nutrition and physical fitness will be discussed. The course will consist of lectures, discussions and audio-visual materials. This course includes an exciting community nutrition education program. (4 hours of lecture per week)							
DTC104	R	17439	10:30-12:20PM	T R	DANVERS	4.0	B LUCAS
DVD: DEVELOPMENTAL DISABILITIES							
DVD121 FIELD PLACEMENT AND SEMINAR 1 IN DEVELOPMENTAL DISABILITIES							
<i>Pre: Communications proficiency</i>							
Professionally supervised fieldwork with individuals of all ages with developmental disabilities (such as mental retardation, autism, and fetal alcohol syndrome) in residential, vocational, recreational, and educational settings and on-campus faculty-guided seminars. Students will critically examine their own values and attitudes toward the individuals they serve, communicate effectively with coworkers, and apply skills and principles they have learned. (Formerly MEH121)							
*DVD121	LR1	16692	09:00-10:45AM	T	LYNN	3.0	STAFF
*DVD121 LR1 is restricted to DMR Grant participants.							
*DVD121	LR2	16693	09:00-10:45AM	R	LYNN	3.0	STAFF
*DVD121 LR2 is restricted to DMR Grant participants.							

EARLY CHILDHOOD EDUCATION

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
ECE: EARLY CHILDHOOD EDUCATION							
ECE101 CHILD GROWTH AND DEVELOPMENT							
Course material will be dealt with through lecture/discussions, workshops, observations, and fieldwork and should enable the student to: observe and record children's behavior; describe stages children go through in the major areas of growth and discuss appropriate methods of guiding behavior at each stage; discuss major developmental and learning theories; defend the value of play and design play experiences to enhance growth at each developmental stage.							
ECE101	AD	10058	07:00-09:45PM	W	DANVERS	3.0	STAFF
ECE101	AL	10059	06:30-09:15PM	R	LYNN	3.0	STAFF
ECE101	LK	10060	09:30-10:45AM	T R	LYNN	3.0	STAFF
ECE101	M	16130	12:30-01:45PM	T R	DANVERS	3.0	STAFF
*ECE101	OL	17495			ONLINE	3.0	STAFF
*ECE101 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
ECE102 PLANNING PROGRAMS FOR THE YOUNG CHILD							
Pre: ECE101 and ECE202							
Through participation in the workshops, classroom discussion, field trips and projects in the course, students should be able to: apply the principles of curriculum development to planning for young children (i.e., defining objectives, selecting age-appropriate experiences for children in specific curriculum areas such as science, math, the arts, language arts, dramatic play); implement curriculum based on knowledge of how children learn, individuality in development, and special needs in children; design learning environments that enhance the growth and development of the whole child.							
ECE102	AL	10061	06:30-09:15PM	T	LYNN	3.0	STAFF
ECE104 CURRICULUM FOR INFANTS AND TODDLERS							
Pre: ECE101							
On completion of this course which utilizes lecture/discussion, observation, audio-visual materials, readings and fieldwork as learning techniques, students should be able to: describe the stages of infant and toddler development and identify the factors that influence this development; discuss the responsibilities of the educator in assessing and responding to the developmental needs of infants and toddlers; select developmentally appropriate experiences and materials for infants and toddlers, and design environments for them that will enhance their growth and development.							
ECE104	AL	10062	06:30-09:15PM	R	LYNN	3.0	STAFF
ECE110 FOUNDATIONS OF EARLY CHILDHOOD EDUCATION							
Pre: Communications proficiency							
Field observation and research will augment classroom activities and enable students to: describe the role of teachers of young children and devise a plan for their own professional development; trace the historical traditions of ECE and describe their impact on current practice; identify issues and trends in the field and articulate a professional position; analyze and evaluate approaches to ECE using the principles of developmentally appropriate practice and construct a personal philosophy of ECE based on this analysis.							
ECE110	AL	15518	03:30-06:15PM	R	LYNN	3.0	STAFF
ECE110	J	16690	09:30-10:45AM	T R	DANVERS	3.0	STAFF
ECE201 SUPPORTING THE YOUNG CHILD'S PHYSICAL AND MENTAL HEALTH							
Students completing this course should be able to: provide experience in nutrition, motor development, and health care for young children based on their knowledge of the young child's developmental needs and the principles of curriculum development; design accident-free environments and experiences for young children based on their developmental needs; identify children under stress and utilize methods designed to promote their mental health during these life crises; knowledge of first aid procedures.							
ECE201	LM	10063	12:30-01:45PM	T R	LYNN	3.0	STAFF
ECE202 USING THE EXPRESSIVE ARTS WITH YOUNG CHILDREN							
Identifies the elements of the creative process and traces the development of this process within the student; develops expressive experiences that will guide young children in the discovery of their own creative potential; designs experiences appropriate for children in the specific expressive arts curriculum areas of music, body movement, art, storytelling, drama, and play for their own use both as creative outlets and as therapeutic tools. Fulfills open elective only. (3 hours of lecture per week)							
ECE202	LR1	10064	11:30-12:45PM	M W	LYNN	3.0	G PELLETIER
ECE202	LR2	10065	01:00-02:15PM	M W	LYNN	3.0	S FERRANTE
ECE204 CHILDREN WITH SPECIAL NEEDS							
Pre: ECE101							
Students will learn to: identify criteria and describe procedures for early identification of children with diverse abilities; identify and describe special needs in the areas of sensory and communication impairments, developmental and physical disabilities, and emotional and behavioral disorders, and evaluate their impact on family and peers; plan for inclusion by designing environments and activities that enhance the strengths of individual children and reflect an awareness of each child's needs.							
ECE204	AD	10066	06:30-09:15PM	R	DANVERS	3.0	STAFF
ECE204	AL	17252	07:00-09:45PM	W	LYNN	3.0	STAFF
ECE204	LR	10067	02:00-04:45PM	R	LYNN	3.0	STAFF
ECE210 STRATEGIES AND SUPPORTS FOR CHILDREN WITH SPECIAL NEEDS							
Pre: Communications proficiency; ECE101 or PSY114; ECE204 or ECE208 Co: ECE243							
Introduction to a variety of evidence-based applications and accommodations for children birth-12 years with moderate special needs. Research-based procedures and practices successful in meeting the needs of these students will be explored with emphasis on combining theory, research to develop curriculum, practical skills, and strategies promoting positive mental health.							
ECE210	AL	17006	07:00-09:45PM	W	LYNN	3.0	STAFF
ECE242 FIELD PLACEMENT AND SEMINAR IN INFANT/TODDLER CHILD CARE							
Pre: ECE101 Co: ECE104							
Through professionally supervised work with people working in Infant and Toddler child care agencies and on-campus faculty-guided seminars, students as a result of their field placement experience should be able to interact with children from 0-3 years old in a growth producing manner, and guide them in their interaction with others, establish constructive relationships with other adults in settings for children from 0-3 years old, and plan experiences for children that show their understanding of infant and toddler development and how children from 0-3 years old learn best.							
ECE242	AL	10075	06:00-07:50PM	W	LYNN	6.0	STAFF
ECE243 FIELD PLACEMENT AND SEMINAR IN SPECIAL EDUCATION							
Pre: Communications proficiency; ECE101 or PSY114; ECE204 or ECE208 Co: Mathematics proficiency; ECE210							
Through 240 hours of professionally supervised work with children birth-12 years of age with moderate special needs in educational settings and weekly on-campus, faculty-guided seminars, students will learn to: interact with children in ways that enhance their mental health; formulate constructive relationships with adults; provide developmentally appropriate strategies and supports; and develop partnerships with parents.							
ECE243	AL	17086	07:00-09:00PM	M	LYNN	6.0	STAFF

EARLY CHILDHOOD EDUCATION

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
ECE245 FIELD PLACEMENT AND SEMINAR 1 IN EARLY CHILDHOOD EDUCATION							
<i>Pre: ECE101 Co: ECE202</i>							
Through 240 hours of professionally supervised work with children in preschool settings and weekly on-campus faculty-guided seminars, students will learn to: critically examine their own values and personal attitudes toward young children; interact with children in ways that enhance their mental health; formulate constructive relationships with adults.							
ECE245	LR1	15516	08:30-10:20AM	W	LYNN	6.0	S FERRANTE
ECE245	LR2	15517	08:30-10:20AM	M	LYNN	6.0	G PELLETIER
ECE246 FIELD PLACEMENT AND SEMINAR 2 IN EARLY CHILDHOOD EDUCATION							
<i>Pre: ECE245 Co: ECE102</i>							
Through 240 hours of professionally supervised work with children in preschool settings and weekly on-campus faculty-guided seminars, students will learn to: interact with children in ways that enhance their mental health; formulate constructive relationships with adults; provide developmentally appropriate experiences for young children, and design experiences for parents.							
ECE246	AD	15520	06:00-08:00PM	M	DANVERS	6.0	STAFF
ECE261 EARLY CHILDHOOD PRACTICUM AND SEMINAR							
<i>Pre: ECE101, 102, 110, and 202 Co: ECE204</i>							
Direct work with children mentored by early childhood professionals, faculty-guided seminars, and ongoing reflection, will enable students to: demonstrate a commitment to the profession and their ongoing professional development including introduction to MTEL; use their knowledge of child growth and development to guide their interactions, curricular decisions, and instructional strategies; use a variety of approaches to assess children's growth and learning; collaborate with other adults to achieve their own goals as well as developmental goals for children. (120 hours of fieldwork and 30 hours of seminar)							
ECE261	LR	10076	02:30-04:30PM	W	LYNN	3.0	G PELLETIER

ECO: ECONOMICS

ECO103 PRINCIPLES OF MACROECONOMICS							
<i>Pre: Communications proficiency</i>							
The study of the overall level of economic activity – output, employment, and prices – and the forces that shape that activity. Topics include: national income accounting; the role of consumption, saving, investment, and government spending; money and economic activity; the tools of public policy available which may be used to promote the macro goals of growth, full employment, and price stability; the different economic maps of reality that explain and shape our decisions about economic landscape. Fulfills open, liberal arts, and social science electives.							
ECO103	AD	15882	06:30-09:15PM	R	DANVERS	3.0	STAFF
ECO103	AL	10609	06:30-09:15PM	R	LYNN	3.0	STAFF
ECO103	LD	14958	11:30-12:20PM	M W F	LYNN	3.0	STAFF
ECO103	LJ	10612	08:00-09:15AM	T R	LYNN	3.0	STAFF
ECO103	M	10611	12:30-01:45PM	T R	DANVERS	3.0	STAFF
*ECO103	MOL	13098			ONLINE	3.0	J LEMOI
<i>*ECO103 MOL is a Mass Colleges Online course. The college delivering the course will send students access information through their NSCC e-mail address.</i>							
ECO103	R	16676	03:30-06:15PM	F	DANVERS	3.0	STAFF
ECO104 PRINCIPLES OF MICROECONOMICS							
<i>Pre: Communications proficiency</i>							
A study of the economics of markets and market economies. This study of individual decision makers and their interaction in markets includes: the basic concepts of demand, supply, and the price mechanism; elasticity; the economics of the firm and market structures; the microeconomic role of government; the distribution of income; international trade and finance; the problems of economic development, and comparative economic systems. Fulfills open, liberal arts, and social science electives.							
ECO104	AD	10613	06:30-09:15PM	T	DANVERS	3.0	STAFF
ECO104	A	14959	08:30-09:20AM	M W F	DANVERS	3.0	STAFF
ECO104	K	10614	09:30-10:45AM	T R	DANVERS	3.0	STAFF
ECO104	LC	10615	10:30-11:20AM	M W F	LYNN	3.0	STAFF
ECO104	LM	10620	12:30-01:45PM	T R	LYNN	3.0	STAFF
*ECO104	MOL	13099			ONLINE	3.0	J LEMOI
<i>*ECO104 MOL is a Mass Colleges Online course. The college delivering the course will send students access information through their NSCC e-mail address.</i>							
ECO104	N	17078	02:00-03:15PM	T R	DANVERS	3.0	STAFF

EDU: EDUCATION

EDU102 ISSUES IN CONTEMPORARY EDUCATION							
Includes: the role of the teacher as it fits into the school management system; effective interpersonal communication techniques; classroom and behavior management strategies that contribute to a positive learning environment; the teaching/learning process and instructional strategies utilized by effective classroom teachers; current trends and issues in the field of education; and plan for their own professional development in pursuit of a career in teaching. Field observation and research will augment classroom activities.							
EDU102	AD	17052	07:00-09:45PM	W	DANVERS	3.0	STAFF
*EDU102	AL	14075	06:00-08:45PM	T	TBA	3.0	STAFF
<i>*EDU102 AL meets on the Lynn Campus in the MBTA Building, Room T102A, for the first night of class. Subsequent classes are held at the Ford Elementary School.</i>							
EDU116 TEACHING LANGUAGE AND LITERACY							
<i>Pre: Communications proficiency</i>							
Includes: developmental continuum of reading and writing; assessment of children's language and literacy learning; creation of literacy environments, experiences and teaching strategies that support language and literacy development; second language learning and its application to children's literacy development; a survey of children's literature as it relates to language and literacy development.							
EDU116	AL	14076	07:00-09:45PM	R	LYNN	3.0	STAFF

ENGINEERING SCIENCE

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
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EGS: ENGINEERING SCIENCE

EGS101 INTRODUCTION TO ENGINEERING

Pre: MAT151 with C or better Co: CMP101

Investigates some of the various fields of engineering, examines the engineering design process, and provides an introduction to problem-solving techniques used in engineering and engineering studies. (2 hours of lecture per week)

*EGS101	LR	14351	09:30-10:45AM	T R	LYNN	2.0	M STEIGERWALD
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**EGS101 LR meets January 24 - April 7. Deadline for 100% refund of tuition and fees: January 30. Withdrawal Deadline: March 19.*

EGS202 DYNAMICS

Pre: EGS201

Analysis of moving particles and rigid bodies under applied forces. The principles of kinematics and kinetics are presented. Topics include rectilinear motion, curvilinear motion, forces, acceleration, work, energy, impulse, linear momentum, angular momentum, and mechanical vibrations. (3 hours of lecture per week)

EGS202	LR	12225	08:00-09:15AM	M W	LYNN	3.0	J JEONG
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EGS204 STRENGTH OF MATERIALS

Pre: EGS201

Topics include concepts of stress and strain, axial loading, torsion, bending, transverse loading, transformations of stress and strain, and deflection of beams. Analysis of both determinate and indeterminate structural systems is presented. (3 hours of lecture per week)

EGS204	LJ	12226	08:00-09:15AM	T R	LYNN	3.0	STAFF
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EGS212 INTRODUCTORY CIRCUIT THEORY 2 AND LABORATORY

Pre: EGS211 Co: MAT302

A continuation of Introductory Circuit Theory 1. Topics include the sinusoidal forcing function, complex numbers, phasors, real and reactive power, complex frequency and the s-plane, frequency response, real and ideal transformers, and one- and two-port networks. Laboratory exercises include waveform measurements with DC and AC meters and advanced use of the oscilloscope. (5 hours of lecture, 2 hours of laboratory per week)

EGS212	LR	17021	08:15-09:20AM	M T W R	LYNN	6.0	M STEIGERWALD
			08:15-10:05AM	F	LYNN		

EGS216 INTRODUCTION TO DIGITAL LOGIC DESIGN

Pre: EGS211 or PHY301 or permission

An introductory course covering the theory and practical applications of digital logic design. Topics include digital systems, basic Boolean operations and gates, variable function generators, combinatorial circuit design and minimization, design of counters, state assignments, number representation and computer arithmetic, shift registers, and digital computers. (3 hours of lecture and 2 hours of lab per week)

EGS216	LR	10683	12:30-02:20PM	W	LYNN	4.0	M STEIGERWALD
			11:30-12:20PM	M W	LYNN		

EMS: EMERGENCY MEDICAL SERVICES

EMS102 EMERGENCY MEDICAL CARE (FIRST RESPONDER CERTIFICATION)

First Responder is a nationally recognized level of EMS training for those interested in learning advanced first aid skills. This course is well-suited for students wishing to pursue employment as lifeguards, in a ski patrol, or for those considering careers in law enforcement, firefighting, or other occupations where advanced layperson medical care may be required. The course provides an overview of human anatomy, personal safety in emergency situations, legal considerations, and the care of sick and injured people, and teamwork techniques when dealing with emergency scenes. Upon successful completion of the course, tests, and skill stations, students earn First Responder certification (National DOT Guidelines) as well as an American Heart Association Healthcare Provider CPR card. Topics include bleeding, shock, wounds, fractures, seizures, scene safety and control, drug overdose, childbirth, sudden illness, poisoning, burns, airway management, infection control, sudden illness, and rescue.

EMS102	AD	15119	06:00-08:30PM	W	DANVERS	3.0	STAFF
EMS102	LR	13736	02:30-05:00PM	M	LYNN	3.0	STAFF

EMS104 EMERGENCY MEDICAL TECHNICIAN

EMT-Basic certification is the prerequisite for many EMS-related careers including firefighting, paramedic programs, and involvement in college EMS squads. Upon successful completion of the course, tests, and skill stations, students will be prepared to take the Massachusetts State EMT exam for EMT-B certification. Topics include bleeding, shock, wounds, fractures, seizures, scene safety and control, drug overdose, childbirth, sudden illness, poisoning, burns, airway management, infection control, documentation, pre-hospital splinting, CPR, bandaging, defibrillation, oxygen administration, spine immobilization, and patient assessment will be taught. This course requires attendance for 95% of classes. Note: EMT-B certification requires passing a State exam within 12 months of completing the course. Exam fees are not included in the cost of the course. Students must be 18 years old to take the State exam.

*EMS104	AD	10550	06:00-10:00PM	M W	DANVERS	9.0	STAFF
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**There will be a mandatory Saturday class on April 7, 2012, from 8:00 am - 4:00 pm, for all sections of EMS104.*

*EMS104	AL	15660	06:00-10:00PM	T R	LYNN	9.0	STAFF
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**There will be a mandatory Saturday class on April 7, 2012, from 8:00 am - 4:00 pm, for all sections of EMS104.*

*EMS104	BD	16076	06:00-10:00PM	T R	DANVERS	9.0	STAFF
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**There will be a mandatory Saturday class on April 7, 2012, from 8:00 am - 4:00 pm, for all sections of EMS104.*

ESL: ENGLISH AS A SECOND LANGUAGE

ESL061 INTERMEDIATE ESL GRAMMAR 1

Pre: ESL Placement Exam Score

Students work on lower intermediate skills that connect them to concepts of English grammar used in the American setting. The focus is on basic sentences and subsentence grammar structures, both oral and written: basic verb tenses (simple and continuous), basic modals, noun forms, comparative adjectives/adverbs. This course satisfies no elective requirements. (6 hours of lecture per week)

ESL061	BL	12935	06:30-09:15PM	T R	LYNN	6.0	STAFF
ESL061	LR	12936	08:30-10:10AM	M W F	LYNN	6.0	K GERECKE

ENGLISH AS A SECOND LANGUAGE

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
ESL062 INTERMEDIATE ESL GRAMMAR 2							
<i>Pre: ESL061 with C or better or Placement Exam Score</i>							
In this course students will master basic verb tenses and other grammatical structures introduced in ESL061, and be introduced to more complex structures including perfect tenses, clauses, and determiners. Emphasis is on achieving grammatical accuracy and fluency in both oral and written communication through a variety of guided activities. This course fulfills no elective requirements. (6 hours of lecture per week)							
ESL062	BL	12938	06:30-09:15PM	M W	LYNN	6.0	STAFF
ESL062	CL	12939	06:30-09:15PM	T R	LYNN	6.0	STAFF
ESL062	LR	12942	08:30-10:10AM	M W F	LYNN	6.0	C SCHWARZWALDER
ESL063 INTERMEDIATE ESL READING AND VOCABULARY 1							
<i>Pre: ESL Placement Exam Score</i>							
College-level selections focus on vocabulary building exercises and reading strategies to make reading easier and more enjoyable. Students work on getting the main idea, guessing meaning from context, recognizing reading structure, understanding details, learning to summarize, interpreting point of view, and skimming. The English language dictionary is introduced. This course fulfills no elective requirements. (3 hours of lecture per week)							
ESL063	AL	14366	06:30-09:15PM	W	LYNN	3.0	STAFF
ESL063	LL	12948	11:00-12:15PM	T R	LYNN	3.0	K GERECKE
ESL064 INTERMEDIATE ESL READING AND VOCABULARY 2							
<i>Pre: ESL063 with C or better or Placement Exam Score</i>							
Students increase reading comprehension ability using a variety of materials and methods. Emphasis is on building vocabulary through learning "guessing material from context" skills, word analysis, and dictionary skills. Students also learn a variety of additional reading skills such as skimming for main idea and scanning for specific information. This course fulfills no elective requirements. (3 hours of lecture per week)							
ESL064	AL	16349	07:00-09:45PM	W	LYNN	3.0	STAFF
ESL064	LL	12955	11:00-12:15PM	T R	LYNN	3.0	STAFF
ESL065 INTERMEDIATE ESL WRITING 1							
<i>Pre: ESL Placement Exam Score</i>							
Students work on writing well-formed sentences with subjects, predicates, modifiers, and clauses. They also learn to use an organizational plan in developing clear and cohesive paragraphs. Emphasis is on topic sentences, supporting details, transition words, good mechanics, and relevant information. This course fulfills no elective requirements. (3 hours of lecture per week)							
ESL065	BL	12958	07:00-09:45PM	M	LYNN	3.0	STAFF
ESL065	LK	12962	09:30-10:45AM	T R	LYNN	3.0	STAFF
ESL066 INTERMEDIATE ESL WRITING 2							
<i>Pre: ESL065 with C or better or Placement Exam Score</i>							
Students expand the range, accuracy, and fluency of their writing. Emphasis is on expressing ideas more clearly and completely through learning how to generate ideas, plan, organize, and edit. This course fulfills no elective requirements. (3 hours of lecture per week)							
ESL066	BL	12966	06:30-09:15PM	R	LYNN	3.0	STAFF
ESL066	LD	12970	11:30-12:20PM	M W F	LYNN	3.0	C SCHWARZWALDER
ESL075 INTERMEDIATE ESL LISTENING AND SPEAKING 1							
<i>Pre: ESL Placement Exam Score</i>							
Students develop their ability to comprehend and use English in both academic and conversational settings, including dialogs, recorded information, video clips, and oral instructions. Various language functions are explored and students use their own ideas and opinions to improve oral communication. Students work with partners and in small groups to practice and enhance their listening and speaking skills and feel more confident using English. This course fulfills no elective requirement. (3 hours of lecture per week)							
ESL075	AL	12972	06:30-09:15PM	R	LYNN	3.0	STAFF
ESL075	LD	12974	11:30-12:20PM	M W F	LYNN	3.0	STAFF
ESL076 INTERMEDIATE ESL LISTENING AND SPEAKING 2							
<i>Pre: ESL075 with C or better or Placement Exam Score</i>							
Using an interesting variety of materials, students develop and strengthen their listening and speaking skills for both academic and social situations. Materials include recorded naturally occurring English such as conversations, lectures, and media presentations. Techniques and strategies for improving listening comprehension and effective communication are addressed. Students are provided opportunities to develop their language skills by working with partners and in small groups, and giving short oral presentations. Students are also introduced to note-taking. This course fulfills no elective requirement. (3 hours of lecture per week)							
ESL076	AL	12976	07:00-09:45PM	M	LYNN	3.0	STAFF
ESL076	LJ	12979	08:00-09:15AM	T R	LYNN	3.0	K GERECKE
ESL110 ADVANCED ESL GRAMMAR 1							
<i>Pre: ESL062 or ESL017 with C or better or Placement Exam Score</i>							
Advanced ESL Grammar 1 is a continuation of skills introduced in ESL062. The emphasis is on advanced grammar, both oral and written, using complex modals, active vs. passive voice, a general review of verb tenses, and usage problems typical of ESL students. (Formerly numbered ESL081)							
ESL110	AL	12981	07:00-09:45PM	M	LYNN	3.0	STAFF
ESL110	BL	12982	06:30-09:15PM	T	LYNN	3.0	STAFF
ESL110	LA	12984	08:30-09:20AM	M W F	LYNN	3.0	STAFF
ESL112 ADVANCED ESL READING AND VOCABULARY 1							
<i>Pre: ESL064 or ESL017 with C or better or Placement Exam Score</i>							
Students work on advanced reading comprehension while improving reading skills – finding the main idea, details, meaning in context, understanding inferences, and drawing conclusions. Readings include a variety of themes and current topics selected to motivate and interest adult students. (Formerly numbered ESL083)							
ESL112	AL	12987	06:30-09:15PM	W	LYNN	3.0	STAFF
ESL112	BL	14370	06:30-09:15PM	M	LYNN	3.0	STAFF
ESL112	LB	12989	09:30-10:20AM	M W F	LYNN	3.0	STAFF
ESL114 ADVANCED ESL WRITING 1							
<i>Pre: ESL066 or ESL017 with C or better or Placement Exam Score</i>							
Students refine their paragraph writing skills and are introduced to the basic form of an essay. Emphasis is on moving from an outline, to multiple drafts, to a finished essay. Students learn to recognize and correct errors in their own writing. (Formerly numbered ESL085)							
ESL114	AL	12991	07:00-09:45PM	M	LYNN	3.0	STAFF
ESL114	BL	12993	05:30-08:15PM	F	LYNN	3.0	STAFF
ESL114	LK	14371	09:30-10:45AM	T R	LYNN	3.0	STAFF

ENGLISH AS A SECOND LANGUAGE

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
ESL116 ADVANCED ESL LISTENING AND SPEAKING 1							
<i>Pre: ESL076 with C or better or Placement Exam Score</i>							
Students begin to prepare for the academic challenges encountered in non-ESL classes by developing strategies for successful academic listening, including looking for key points, interpreting detail, recognizing organizational patterns and understanding emphasis in lectures. Students develop effective note-taking techniques to help them organize and understand the information presented to them. They also work on their pronunciation and practice their oral skills by discussing topics in pairs and small groups. Students are required to make short oral presentations, some of which may be videotaped. (3 hours of lecture per week)							
ESL116	AL	12996	07:00-09:45PM	W	LYNN	3.0	STAFF
ESL116	LC	12998	10:30-11:20AM	M W F	LYNN	3.0	T CHEUNG
ESL122 ADVANCED ESL READING AND VOCABULARY 2							
<i>Pre: ESL112 or Placement Exam Score</i>							
Students develop advanced reading skills through the use of academic reading material and literature, focusing on theme, author's tone, and style.							
ESL122	AL	13695	07:00-09:45PM	W	LYNN	3.0	STAFF
ESL122	LL	13006	11:00-12:15PM	T R	LYNN	3.0	C SCHWARZWALDER
ESL126 ADVANCED ESL LISTENING AND SPEAKING 2							
<i>PRE: ESL097 or ESL116 or Placement Exam Score</i>							
Students listen to a variety of authentic materials to help them prepare for college classes and other situations requiring extended listening. Materials may include lectures, dialogs, radio and TV excerpts, reports, and movies. Students evaluate the information they hear and continue to work on their note-taking skills, focusing especially on expanding their academic vocabulary. Frequent pair or group discussions are held and students will be required to make extended oral presentations, some of which may be videotaped. (3 hours of lecture per week)							
ESL126	AL	13013	06:30-09:15PM	T	LYNN	3.0	STAFF
ESL126	LK	13014	09:30-10:45AM	T R	LYNN	3.0	T JUSTICE
ESL128 ADVANCED ESL WRITING AND GRAMMAR 2							
<i>Pre: ESL110 and ESL114 or ESL Placement Exam Score</i>							
Continuation and refinement of skills introduced in ESL110 and ESL114. Students learn how to organize and write four types of essays using all stages of the writing process. They focus on revising and editing their own writing and learn how to integrate source material into their compositions. Instruction in sentence structure and complex grammar used by native speakers will be given within the context of the writing assignments.							
ESL128	AL	14955	07:00-09:45PM	M W	LYNN	6.0	STAFF
ESL128	BL	14956	06:30-09:15PM	T R	LYNN	6.0	STAFF
ESL128	LR	14957	08:30-10:10AM	M W F	LYNN	6.0	T CHEUNG

EUT: ENERGY UTILITY

EUT104 GENERATION, TRANSMISSION, AND DISTRIBUTION

Pre: IEL101; MAT135 Co: IEL102

This course will present an overview of the electrical generation process, and power plant systems and functions. Transmission lines will be analyzed for impedance, reflection and standing wave concepts. The operation and design of utility power distribution systems will be learned, including planning, load characteristics and the application of distribution transformers, substations, primary and secondary systems, and voltage regulation and voltage reductions. (3 hours lecture, 2 hours lab per week)

*EUT104	LR	15683	11:00-12:15PM	M F	LYNN	4.0	STAFF
			01:00-02:50PM	F	LYNN		

*EUT104 LR is reserved for students in the Energy Utility Technology program.

EUT106 ENERGY INDUSTRY SAFETY

Pre: Communications and Mathematics proficiencies

Provides an introduction to the principles of safety, guidelines for the design of equipment, and explanations of the way certain practices should or should not be followed. This course will evaluate human reactions in normal and abnormal conditions. Features required for safe working conditions will be compared to industry standards.

*EUT106	LR	15684	09:30-10:45AM	M F	LYNN	3.0	STAFF
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*EUT106 LR is reserved for students in the Energy Utility Technology program.

EUT108 ENERGY INDUSTRY PRACTICUM/INTERNSHIP

Pre: IEL101; MAT135; EUT102; permission of Program Coordinator Co: IEL102; EUT104

This course will introduce the student to the training labs of a major power generation company (National Grid). Students will work in a facility learning how to splice wires, connect fuses and transformers and learn the industry standard techniques. Students will become familiar with and learn the safe use of the tools and equipment used in the power industry. This course is conducted in two locations and topics include: splicing, meters, underground, overhead lines, transformers, substation, circuit breakers, and regulators. (2 hours lecture, 2 hours lab per week)

*EUT108	LR	15685	08:00-09:50AM	W	LYNN	3.0	STAFF
			10:00-11:50AM	W	LYNN		

*EUT108 LR is reserved for students in the Energy Utility Technology program.

FPS: FIRE PROTECTION AND SAFETY

FPS103 FUNDAMENTALS OF FIRE PREVENTION

This course provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.

*FPS103	OL	17015			ONLINE	3.0	F RYAN
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*FPS103 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

FPS106 BUILDING CONSTRUCTION FOR FIRE PROTECTION

Pre: Communications proficiency

A study of the components of building construction that relate to fire and life safety. The focus of this course is on firefighter safety. The course discusses the key elements of construction and design of structures as factors when inspecting buildings, preplanning fire operations, and operating at emergencies.

FPS106	AD	17463	07:00-09:45PM	M	DANVERS	3.0	STAFF
FPS106	M	10533	12:30-01:45PM	T R	DANVERS	3.0	STAFF

FIRE PROTECTION AND SAFETY

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
FPS112 FIRE BEHAVIOR AND COMBUSTION							
<i>Pre: Communications proficiency</i>							
This course explores the theories and fundamentals of how and why fires start, spread, and how they are controlled.							
*FPS112	OL	17017			ONLINE	3.0	F RYAN
<i>*FPS112 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
FPS134 INTRODUCTION TO HAZARDOUS MATERIALS							
<i>Pre: Communications proficiency</i>							
For individuals who are mandated by law or called upon by necessity to prepare for and respond to emergency incidents that involve hazardous materials.							
FPS134	L	13703	11:00-12:15PM	T R	DANVERS	3.0	STAFF
FPS152 FUNDAMENTALS OF FIREFIGHTER SKILLS 2							
This course builds on the knowledge objectives covered in FPS148 Fundamentals of Firefighter Skills 1. Emphasis is placed on knowledge objectives at the Fire Fighter 2 level of the National Fire Protection's 1001, Standard for the Fire Fighter Professional Qualifications. Fire Learn, an e-Learning component, will provide opportunity for students to reinforce knowledge and critical thinking online. Fulfills fire science and open electives.							
*FPS152	OL	16087			ONLINE	3.0	F RYAN
<i>*FPS152 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
FPS202 FIRE PROTECTION HYDRAULICS AND WATER SUPPLY							
<i>Pre: Communications and Mathematics proficiencies</i>							
Provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection. The application of hydraulic principles will be presented to analyze and solve water supply problems.							
*FPS202	OL	16125			ONLINE	3.0	STAFF
<i>*FPS202 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
FPS204 CHEMISTRY OF HAZARDOUS MATERIALS							
<i>Pre: Communications proficiency</i>							
A survey of basic chemistry emphasizing the nature and behavior of organic and inorganic chemicals, the incompatibility of chemicals, and fire chemistry. The course is designed to improve decision making and safety in fire protection settings.							
FPS204	AD	17464	07:00-09:45PM	W	DANVERS	3.0	STAFF
FPS211 FIRE PROTECTION SYSTEMS AND EQUIPMENT 1							
<i>Pre: Communications proficiency</i>							
Detailed study of the different types of fire extinguishers, including the role of extinguishers in fire protection, the selection, distribution, operation, and use of extinguishers. A detailed study of water sprinkler systems, including the types, inspection of, care and maintenance of water supplies with respect to alarm systems supervision.							
*FPS211	OL	17462			ONLINE	3.0	F RYAN
<i>*FPS211 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
FPS212 FIRE PROTECTION SYSTEMS AND EQUIPMENT 2							
<i>Pre: Communications proficiency</i>							
A review of fire chemistry is followed by a detailed study of special fire suppression agents and systems, including carbon dioxide, dry chemical, foam, halogenated and combustible metal agents.							
FPS212	K	10536	09:30-10:45AM	T R	DANVERS	3.0	STAFF
FRE: FRENCH							
FRE101 ELEMENTARY FRENCH 1							
A communicative approach to the study of the French language basic grammatical structures. Emphasis is placed on students' speaking, listening, reading, and writing skills as they engage and interact in a variety of contextual activities. Francophone culture is interwoven into classroom discussion and activities. Classroom activities are enhanced by interactive multimedia materials. Fulfills open, liberal arts, humanities and modern language electives.							
FRE101	LK	16667	09:30-10:45AM	T R	LYNN	3.0	STAFF
FRE102 ELEMENTARY FRENCH 2							
<i>Pre: FRE101</i>							
A continuation of the communicative approach to the study of the French language advanced grammatical structures. Emphasis is placed on students' speaking, listening, reading, and writing skills as they engage and interact in a variety of contextual activities. Francophone culture is interwoven into classroom discussion and activities. Classroom activities are enhanced by interactive multimedia materials. Fulfills open, liberal arts, humanities and modern language electives.							
FRE102	LJ	13673	08:00-09:15AM	T R	LYNN	3.0	STAFF
FRE102	M	10280	12:30-01:45PM	T R	DANVERS	3.0	STAFF
FSN: FOOD SCIENCE AND SAFETY							
FSN202 FOOD CHEMISTRY							
<i>Pre: CHE101 or CHE103 or CHE114</i>							
This course studies the major food constituents including water, proteins, lipids, carbohydrates, minerals (ash). The lecture portion of the course integrates the importance of organic and biochemistry in food. In the laboratory section, students will learn current methods in food analysis and perform the tests on various food products. As a final project, an unknown food product will be given and students will perform a complete proximate analysis on it. This course is approved for the USDA Food Technology Training Program. (3 hours of lecture, 3 hours of lab per week)							
FSN202	AD	17019	07:00-09:45PM 07:00-09:50PM	M W	DANVERS DANVERS	4.0	STAFF

GEOSCIENCES

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
			07:00-09:50PM	W	DANVERS		
GEO: GEOSCIENCES							
GEO108 ENVIRONMENTAL SCIENCE							
<i>Pre: Communications and Mathematics proficiencies</i>							
An introduction to the field of environmental science. Environmental relationships are studied with regards to the strengths and fragilities of natural systems. Among other topics, the course covers utilization of natural resources, biodiversity, ecosystems, and environmental economics and politics. Fulfills open and liberal arts electives. (3 hours of lecture per week)							
GEO108	B	13724	09:30-10:20AM	M W F	DANVERS	3.0	STAFF
GEO108	LK	17059	09:30-10:45AM	T R	LYNN	3.0	STAFF
GEO110 METEOROLOGY							
<i>Pre: Communications proficiency</i>							
Surveys the nature of weather conditions and the basic atmospheric processes which create the conditions. Radiation and heat balance, water phase changes, cloud formations, and wind systems are studied. Weather map interpretation and the analysis of violent weather are stressed, and a brief introduction to climatology is included. Fulfills open and liberal arts electives. (3 hours of lecture per week)							
GEO110	AD	10365	06:30-09:15PM	R	DANVERS	3.0	STAFF
GOV: GOVERNMENT							
GOV102 AMERICAN NATIONAL GOVERNMENT AND POLITICS							
<i>Pre: Communications proficiency</i>							
A comprehensive examination of American political institutions. Consideration is given to the heritage and structure of American government and politics as well as to the functions performed by the national government today. Such topics as the fundamental ideas of American constitutionalism, civil liberties, civil rights, and the changing role of the national government will receive emphasis. Fulfills open, liberal arts and social science electives.							
*GOV102	AD	10622	06:30-09:45PM	W	DANVERS	3.0	STAFF
*GOV102 AD runs January 31 - April 30 for 12 weeks.							
GOV104 STATE AND LOCAL GOVERNMENT IN AMERICA							
<i>Pre: Communications proficiency</i>							
The study of the structure, process and policies of state and local government, with a focus on the Massachusetts political system. Emphasis is placed on the policies and problems of state and local government and their relationship to the federal government. Special attention is given to direct participation in the political process in addition to the study of public policies on issues such as spending and taxation, crime, education, housing, and welfare. Fulfills open, liberal arts, and social science electives.							
GOV104	AD	15895	06:30-09:15PM	W	DANVERS	3.0	STAFF
GOV104	AL	15894	07:00-09:45PM	M	LYNN	3.0	STAFF
GOV104	B	13032	09:30-10:20AM	M W F	DANVERS	3.0	STAFF
GRA: GRAPHIC ARTS							
GRA102 GRAPHIC PRODUCTION							
<i>Pre: Communications proficiency</i>							
Provides an overview of the procedures required in the design of publications prepared for the print production process. Focuses on working with clients, planning and proofing jobs, and learning print terminology. Students will also learn about selecting paper, estimating print costs, and binding and finishing considerations. Design projects will be manually completed from the rough idea to the finished piece according to the design and production process.							
*GRA102	CT	10799	12:30-03:20PM	R	LYNN	3.0	S FUHS
*GRA102 CT is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom meetings. GRA102 CT meets every other week on January 26, February 9, February 23, March 1, March 15, March 29, April 12, and April 26.							
GRA116 ELECTRONIC IMAGING							
<i>Pre: Communications and Mathematics proficiencies</i>							
Provides hands-on skill development on preparing electronic images using Adobe Photoshop. Special emphasis will be on understanding the tools and menus of this sophisticated program. Scanning, image manipulation, filters, masking, exporting images, creating collages, and color editing and correction will be emphasized. Various legal, software, and hardware issues involved in preparing electronic images will be addressed. Students entering this course must be able to locate, create, and manipulate files and have a working knowledge of how to use a Web browser to access information on the Web.							
GRA116	LK	10867	09:30-10:45AM	T R	TBA	3.0	STAFF
GRA118 DIGITAL PAGE LAYOUT							
<i>Pre: Communications and Mathematics proficiencies</i>							
Provides a hands-on introduction to Adobe InDesign, a desktop publishing software widely used in the graphic design industry. Topics covered include an introduction to the Macintosh operating system, design and page layout principles, and an overview of the graphic design and publishing processes. Projects completed include corporate ID, brochures, flyers, and newsletters. (3 hours of lecture per week)							
GRA118	LL	14944	11:00-12:15PM	T R	LYNN	3.0	D MURPHY
GRA130 INTRODUCTION TO DIGITAL PHOTOGRAPHY							
<i>Pre: Communications and Mathematics proficiencies</i>							
Examine the use of sound photography principles, practices, terminology, digital camera components, lighting, scanning, image criteria, photo resources and purchasing of photography and ethics in image usage. Emphasize use of digital cameras in studios and on location. Investigation of B&W and color theory, usage of models and releases and successful photographers will be included. Producing a professional photography portfolio will be a goal to this course.							
GRA130	LR	14948	09:30-12:15PM	F	LYNN	3.0	K PICKARD

GRAPHIC ARTS

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
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GRA140 INTEGRATED MEDIA DESIGN PRINCIPLES

Pre: Communications and Mathematics proficiencies

This course introduces current design techniques, hardware options and software applications prominent in the growing field of integrated digital graphic design and marketing communications. Students will investigate new methodologies and offerings in print, Web design, social media (blogs, social networks, video sites), wikis, mobile media (podcasts and Smartphone apps), Webinars and e-mail promotions. Emphasis is placed on marketing/design concepts, best practices and hands-on skills development associated with creative integrated media/promotional options. Fulfills open and business science electives.

GRA140	LR	17438	12:30-01:45PM	M W	LYNN	3.0	S FUHS
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GRA202 DIGITAL ILLUSTRATION

Pre: Communications and Mathematics proficiencies Co: ART110

Designed to familiarize students with using the computer to produce illustrations. Using Adobe Illustrator, students will learn to work with tools, palettes, objects, and type. Assignments include logos, illustrations, and single-page layouts. Special attention is given to visual design aspects exporting images, and related software and hardware issues. Students entering this course must be able to locate, create, and manipulate files and have a working knowledge of how to use a Web browser to access information on the Web.

GRA202	LR	10871	03:30-04:45PM	M W	LYNN	3.0	D MURPHY
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GRA204 TYPOGRAPHY

Pre: GRA118 and GRA202 Co: ART114

Provides hands-on experience with effective use of typography in preparing graphic design projects. Lectures will cover the history of type, the development of major type families, identification/classification, nomenclature and the use of typographic contrast/emphasis. Students will prepare design solutions incorporating type and images manually and by using computer software. An appreciation of type as a graphical element is a key outcome of this course.

GRA204	LR	12184	09:30-10:45AM	M W	LYNN	3.0	J HILDEBRAND
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GRA212 ELECTRONIC PUBLISHING ISSUES

Pre: GRA118 and GRA202 Co: GRA116

Provides hands-on experience with digital prepress requirements connected with print production. Covers effective placement of graphic, photographic, and text-based images into page-layout software. Advanced features for graphic design and photo-manipulation software programs will be explored. Other topics include use of service bureaus, trapping for spot color, four-color-process printing, legal issues associated with graphic and Web page design, and freelance designer issues. (3 hours of lecture per week)

*GRA212	LR	12869	02:00-03:15PM	M W	LYNN	3.0	S FUHS
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**This is a Service-Learning course.*

GRA216 GRAPHIC DESIGN PORTFOLIO

Pre: GRA118 and GRA202 Co: GRA116 and GRA204

Students will apply creative and digital skills to create and fine-tune professional graphic design projects related to advertising, marketing, and promotional materials. Emphasis is placed on producing a diverse graphic design portfolio of visual designs and self-promotional materials, showcasing the student's style. These materials will demonstrate technical competencies, creative and conceptual abilities that may be required by a client. Students will also be required to prepare electronic versions of their portfolio. The course culminates with mock interviews, portfolio presentations, design justification and critiques.

GRA216	LR	16853	11:00-12:15PM	M W	LYNN	3.0	J HILDEBRAND
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HIS: HISTORY

HIS101 HISTORY OF WESTERN CIVILIZATION 1

Pre: Communications proficiency

Examines the economic, political, social and cultural development of Western civilization to 1715 and considers the impact of this civilization on today's world. Fulfills open, liberal arts, history, social science, and with HIS102, history sequence electives.

HIS101	LL	10632	11:00-12:15PM	T R	LYNN	3.0	STAFF
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HIS102 HISTORY OF WESTERN CIVILIZATION 2

Pre: Communications proficiency

Examines the economic, political, social and cultural development of Western civilization since 1715 and considers the impact of this civilization on today's world. Fulfills open, liberal arts, history, social science, and with HIS101, history sequence electives.

HIS102	AL	10636	07:00-09:45PM	M	LYNN	3.0	STAFF
HIS102	LK	13033	09:30-10:45AM	T R	LYNN	3.0	STAFF
HIS102	LM	14394	12:30-01:45PM	T R	LYNN	3.0	STAFF

HIS103 UNITED STATES HISTORY 1

Pre: Communications proficiency

Examines the economic, political, social and cultural development of the United States to 1877 and its implications for the present. Also surveys the U.S. Constitution and important Supreme Court decisions through Reconstruction. Fulfills open, liberal arts, social science, and with HIS104, a history sequence elective.

HIS103	AD	16643	05:30-06:45PM	M W	DANVERS	3.0	STAFF
HIS103	A	10643	08:30-09:20AM	M W F	DANVERS	3.0	STAFF
HIS103	C	15676	10:30-11:20AM	M W F	DANVERS	3.0	STAFF

HIS104 UNITED STATES HISTORY 2

Pre: Communications proficiency

Examines the economic, political, social and cultural development of the United States since 1877 and its implications for the present. Also surveys the U.S. Constitution and important Supreme Court decisions since Reconstruction. Fulfills open, liberal arts, social science, and with HIS103, a history sequence elective.

HIS104	AD	10646	07:00-09:45PM	W	DANVERS	3.0	STAFF
HIS104	AL	16111	06:30-09:15PM	R	LYNN	3.0	STAFF
HIS104	BL	16666	04:00-06:45PM	W	LYNN	3.0	STAFF
HIS104	J	10647	08:00-09:15AM	T R	DANVERS	3.0	STAFF

HIS126 THE WORLD IN THE 20TH CENTURY

Pre: Communications proficiency

A survey course that will focus on the political, economic, and ideological forces surrounding the most important events of the 20th century. Topics to be examined include the two world wars, the Holocaust, the Cold War, the Vietnam War, the disintegration of the Soviet Union, and the subsequent rearrangement of the world balance of power. We will examine the evolution of the United States' role in the world community. Fulfills open, liberal arts, and social science electives.

*HIS126	OL	14960			ONLINE	3.0	STAFF
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**HIS126 OL is a Distance-Learning course with an orientation. For details log on to: www/northshore.edu/elearning/campus.*

HISTORY

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
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HIS131 THE HISTORY OF WORLD CIVILIZATIONS 1

Pre: Communications proficiency

A survey and examination of major social, political, economic, and cultural developments in Middle Eastern, European, Asian, African, and Mesoamerican civilizations to 1700. Emphasis will be placed on comparisons, contrasts, and relationships between those civilizations, and the impact of those developments on today's world. Fulfills open, liberal arts, social science, and with HIS132, history sequence electives.

HIS131	AL	13699	06:30-09:15PM	T	LYNN	3.0	STAFF
HIS131	BL	16665	04:00-06:45PM	M	LYNN	3.0	STAFF
HIS131	R	16645	04:00-05:15PM	M W	DANVERS	3.0	STAFF
HIS131	A	10651	08:30-09:20AM	M W F	DANVERS	3.0	J BURT
HIS131	C	12659	10:30-11:20AM	M W F	DANVERS	3.0	K KAUFMAN
HIS131	F	16113	01:30-02:20PM	M W F	DANVERS	3.0	K KAUFMAN
HIS131	L	10654	11:00-12:15PM	T R	DANVERS	3.0	J BURT
HIS131	LA	12178	08:30-09:20AM	M W F	LYNN	3.0	N CHIO
HIS131	LD	11172	11:30-12:20PM	M W F	LYNN	3.0	N CHIO
HIS131	LJ	10659	08:00-09:15AM	T R	LYNN	3.0	STAFF
HIS131	LM	13080	12:30-01:45PM	T R	LYNN	3.0	K KAUFMAN
HIS131	LN	17443	02:00-03:15PM	T R	LYNN	3.0	STAFF
HIS131	M	13698	12:30-01:45PM	T R	DANVERS	3.0	STAFF
HIS131	N	17442	02:00-03:15PM	T R	DANVERS	3.0	STAFF
*HIS131	OL	12261			ONLINE	3.0	J BURT

*HIS131 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

HIS132 THE HISTORY OF WORLD CIVILIZATIONS 2

Pre: Communications proficiency

A survey and examination of major social, political, economic, and cultural developments in Middle Eastern, European, Asian, African, and Latin civilizations since 1700. Emphasis will be placed on the impact of those developments on today's world, and on comparisons, contrasts, and relationships between those civilizations. Fulfills open, liberal arts, social science, and with HIS131, history sequence electives.

HIS132	AD	10661	06:30-09:15PM	T	DANVERS	3.0	STAFF
HIS132	AL	11084	07:00-09:45PM	W	LYNN	3.0	STAFF
HIS132	BD	16117	09:30-12:15PM	S	DANVERS	3.0	STAFF
*HIS132	BL	16118	09:30-12:25PM	S	LYNN	3.0	STAFF

*HIS132 BL is a late-starting course and begins January 30. Registration is ongoing through January 30.

HIS132	CD	16119	04:00-06:45PM	W	DANVERS	3.0	STAFF
HIS132	DD	16678	04:00-06:45PM	M	DANVERS	3.0	H BOWEN
HIS132	A	13036	08:30-09:20AM	M W F	DANVERS	3.0	STAFF
HIS132	B	11086	09:30-10:20AM	M W F	DANVERS	3.0	J BURT
HIS132	C	15613	10:30-11:20AM	M W F	DANVERS	3.0	L DAVIS
HIS132	E	11087	12:30-01:20PM	M W F	DANVERS	3.0	K KAUFMAN
HIS132	G	17080	02:30-03:20PM	M W F	DANVERS	3.0	STAFF
HIS132	J	11088	08:00-09:15AM	T R	DANVERS	3.0	J BURT
HIS132	LB	12179	09:30-10:20AM	M W F	LYNN	3.0	N CHIO
HIS132	LE	12180	12:30-01:20PM	M W F	LYNN	3.0	N CHIO
HIS132	LK1	10662	09:30-10:45AM	T R	LYNN	3.0	L DAVIS
HIS132	LK2	11090	09:30-10:45AM	T R	LYNN	3.0	K KAUFMAN
HIS132	LL	13079	11:00-12:15PM	T R	LYNN	3.0	L DAVIS
HIS132	M	15059	12:30-01:45PM	T R	DANVERS	3.0	N CHIO
HIS132	N	17081	02:00-03:15PM	T R	DANVERS	3.0	STAFF
*HIS132	OL	13097			ONLINE	3.0	STAFF

*HIS132 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

HIS134 EUROPEAN HISTORY SINCE 1789

Pre: Communications proficiency

An introduction to the political, cultural and social history of Europe since 1789. Major topics include European political culture, genocide, history and memory and the construction of national identities. Fulfills liberal arts, social science, and open electives.

HIS134	D	17079	11:30-12:20PM	M W F	DANVERS	3.0	L DAVIS
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HIS140 AMERICAN ENVIRONMENTAL HISTORY

Pre: Communications proficiency

American Environmental History examines through time the changing relationship between human beings and the natural world of North America. Emphasis will be placed on how Americans acted to shape their environment, how they perceived that environment, and how these interact with each other to determine who we are and shape what we might become. Fulfills history, liberal arts, and open electives.

HIS140	K	17208	09:30-10:45AM	T R	DANVERS	3.0	W FORD
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HLS: HEALTH SUPPORT

HLS102 ANATOMY AND PHYSIOLOGY FOR ALLIED HEALTH

Pre: Communications and Mathematics proficiencies

This course is designed to give the student a basic understanding of the structure and function of the human body. Particular emphasis is placed on the normal structure of the various systems and some of the conditions that affect them. (4 hours of lecture per week)

HLS102	AL	17130	06:00-09:30PM	M	LYNN	4.0	STAFF
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HONORS

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
HON: HONORS							
HON206 MEANING OF LIFE – FILM, FICTION, AND PHILOSOPHY							
<i>Pre: CMP101</i>							
Designed to challenge the academic skills of students in the Honors Program. The content is interdisciplinary and the theme, problem or topic will vary, depending on the interest of Honors Program students and faculty. This course fulfills an open elective and will be designed to fulfill at least a liberal arts and humanities elective. Other additional electives will be determined each time the course is offered. All degree students can take the seminar if they maintain a 3.5 GPA and have passed CMP101.							
*HON206	CT1	17214	12:30-01:45PM	M	LYNN	3.0	T MAGNOLIA
<i>*HON206 CT1 is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom hours.</i>							
*HON206	CT2	17444	12:30-01:45PM	T	DANVERS	3.0	T MAGNOLIA
<i>*HON206 CT2 is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom hours.</i>							
HRT: HORTICULTURE							
HRT102 TURF MANAGEMENT							
This course builds upon the basic principles established in HRT101. Topics considered in detail include fertilizers and turf fertilizing practices, disease control, turf pesticides and IPM practices, and associated environmental issues. The development of an annual turf maintenance calendar is included.							
HRT102	R	17436	01:30-04:20PM	W	AGGIE	3.0	STAFF
HRT108 EQUIPMENT OPERATION							
Covers both large and small equipment. Students develop skills using landscape construction equipment including front-end loaders, backhoes, dump trucks, bulldozers and other machines. Routine maintenance and servicing skills are included. The care, maintenance and repair of small engines and small outdoor power equipment are also covered. (2 hours of lecture, 3 hours of lab per week)							
HRT108	R	17567	09:30-10:20AM 01:30-04:30PM	M W M	AGGIE AGGIE	3.0	STAFF
HRT202 URBAN TREE CARE 2							
Arboriculture principles and practices for students planning to take the Massachusetts Arborist exam. Students expand on skills and knowledge developed in Arboriculture 1, including identification, cultural requirements, tree physiology, pest control and climbing techniques.							
HRT202	R	15832	11:30-02:20PM	F	AGGIE	3.0	J LIACOS
HRT202	R2	17572	12:30-01:45PM	T R	AGGIE	3.0	STAFF
HRT206 LANDSCAPE DESIGN							
An introduction to landscape design including site analysis techniques, and development of site organization. Selection of design elements such as plant material, paving and site furnishings are included. Homes located nearby are used as case studies for evaluation, analysis and design consideration. (2 hours of lecture, 4 hours of lab per week)							
HRT206	R1	10688	08:30-12:20PM 10:30-11:20AM	T M W	AGGIE AGGIE	4.0	R JANSSON
HRT206	R2	10689	08:30-12:20PM 10:30-11:20AM	R M W	AGGIE AGGIE	4.0	R JANSSON
HRT210 HERBACEOUS PERENNIAL PLANTS							
An introduction of perennial plant identification and culture. Plant materials studied include garden biennials, perennials, bulbs, ground covers, vines, ferns, wildflowers and roses. Greenhouse production of perennial plants is included. (2 hours of lecture, 2 hours of lab per week)							
HRT210	R1	10691	09:30-11:20AM 10:30-11:20AM 12:30-01:20PM	T F M	AGGIE AGGIE AGGIE	3.0	STAFF
HRT214 GREENHOUSE CROP PRODUCTION 2							
<i>Pre: Mathematics proficiency</i>							
This course is designed around the selection and marketing of annual spring bedding plant crops and hanging baskets. Additional skills to be covered include IPM, crop scheduling and space allocation, pest identification and management, and retail marketing strategies. It is recommended but not necessary for students to have taken HRT212 (formerly FLR201) prior to this class. (2 hours of lecture, 4 hours of lab per week) (Formerly FLR202)							
HRT214	R	16806	11:30-12:20PM 12:25-02:20PM	W F F	AGGIE AGGIE	3.0	B HEATH
HSP: HOSPITALITY							
HSP110 PLANNING MEETINGS, CONFERENCES, AND SPECIAL EVENTS							
<i>Pre: Mathematics proficiency Co: TOU104</i>							
Introduces the various types of events and activities that can be planned for hotels and attractions. Students learn how to recruit speakers and performers, plan menus, deal with catering departments and talent companies, and plan special events to include such things as incentive programs, day trips, presentations, concerts, theme nights and guest activities. Negotiation skills, creativity, liability issues and risk management will be emphasized.							
*HSP110	LK	10545	09:30-10:45AM	T R	LYNN	3.0	B KELLY
<i>*This is a Service-Learning course.</i>							
HSP114 MARKETING THE TOURISM AND HOSPITALITY INDUSTRY							
<i>Co: TOU104</i>							
Focuses on how to market the services offered by the travel, tourism, and hospitality industries. Examines the concept of service marketing and how to be competitive when offering the "intangible" product. Students will learn basic marketing techniques such as conducting market research, designing a marketing plan, and advertising.							
HSP114	LL	10546	11:00-12:15PM	T R	LYNN	3.0	B KELLY

HUMAN SERVICES

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
HUS: HUMAN SERVICES							
HUS101 THE HUMAN SERVICES WORKER							
Provides the instruments to explore and evaluate personal values, motives, feelings, needs, attitudes, interests and personality traits especially as they pertain to awarenesses which will help a Human Services worker; and explores personal and societal prejudices, stereotyping behaviors, and biases.							
HUS101	AL	10143	07:00-09:45PM	M	LYNN	3.0	STAFF
HUS101	L	10144	11:00-12:15PM	T R	DANVERS	3.0	STAFF
HUS101	LK	12161	09:30-10:45AM	T R	LYNN	3.0	STAFF
HUS102 HELPING SKILLS IN HUMAN SERVICES							
<i>Pre: HUS101</i>							
Designed to help develop individual and group interaction skills based on historical and contemporary models applicable in the field of Human Services work. Utilizing audio and video taping; role-play; and active classroom participation in exercises designed to demonstrate competence in appropriate listening skills, problem solving, and decision-making strategies.							
HUS102	AD	10146	07:00-09:45PM	W	DANVERS	3.0	STAFF
HUS102	LM	10149	12:30-01:45PM	T R	LYNN	3.0	T SMITH
HUS102	LR1	10150	02:30-03:45PM	M W	LYNN	3.0	T SMITH
*HUS102	LR2	16691	11:00-01:45PM	T	LYNN	3.0	STAFF
<i>*HUS102 LR2 is restricted to DMR Grant participants.</i>							
HUS102	R	10148	02:30-03:45PM	M W	DANVERS	3.0	M FIGGINS-HILL
HUS104 THE FIELD OF HUMAN SERVICES: AN OVERVIEW							
<i>Pre: HUS101 or permission of instructor</i>							
Overview of the past, present and possible future methods and systems engaged in the delivery of Human Services. The student individually, and in groups, will examine many of the roles of the human service workers, including exploration of computer usage in human service agencies.							
HUS104	AL	10151	06:30-09:15PM	M	LYNN	3.0	STAFF
*HUS104	LK	10154	09:30-10:45AM	T R	LYNN	3.0	T SMITH
<i>*This is a Service-Learning course.</i>							
*HUS104	LR	10153	10:30-11:45AM	M W	LYNN	3.0	T SMITH
<i>*This is a Service-Learning course.</i>							
HUS108 PHARMACOLOGY FOR HUMAN SERVICES							
Introduces the human services caregiver to the use and effects of medications in acute, chronic, and home care settings with patients/clients throughout their life span. Emphasis will be placed on the physiology, indications, contraindications, actions, side effects, and behavioral manifestations of the various medications.							
HUS108	AD	17087	09:30-12:15PM	S	DANVERS	3.0	STAFF
HUS108	AL	10155	07:00-09:45PM	W	LYNN	3.0	STAFF
HUS108	LR	10156	08:00-10:45AM	T	LYNN	3.0	STAFF
HUS130 LIFE CHANGES AND CRISIS: ADAPTATION AND INTERVENTION							
<i>Pre: Communications proficiency</i>							
Examines key life events leading to increased insight, change, adaptation, growth, stress and/or crisis in the life of an individual. Concentration on interpersonal relationships, social cohesion and conflict. Coping behaviors, models and counseling approaches to stress and crisis intervention will be studied and practiced in class situations.							
HUS130	AL	16081	06:30-09:15PM	T	LYNN	3.0	STAFF
*HUS130	R	16804	02:00-04:45PM	R	DANVERS	3.0	M FIGGINS-HILL
<i>*This is a Service-Learning course.</i>							
HUS137 FIELD PLACEMENT AND SEMINAR 1 FOR THE HUMAN SERVICES PRACTITIONER							
<i>Pre: Communications proficiency; MEH105 or PSY112, or permission of instructor</i>							
Through professionally supervised work with people in human service agencies and on-campus, faculty-guided seminars, students should be able to: critically examine their own values and personal attitudes toward the people they serve; communicate effectively with their fellow workers and the people they serve; utilize the skills they have learned by providing the appropriate support for the people they serve. (120 hours of field placement per semester and 2 hours of seminar per week)							
HUS137	AD	17261	09:30-12:15PM	S	DANVERS	3.0	STAFF
HUS137	LR	16080	01:30-03:20PM	F	LYNN	3.0	B CIARAMELLA
HUS137	R	16396	12:30-02:20PM	W	DANVERS	3.0	B CIARAMELLA
HUS138 FIELD PLACEMENT AND SEMINAR 2 FOR THE HUMAN SERVICES PRACTITIONER							
<i>Pre: Communications proficiency; HUS137 Co: HUS139</i>							
Through professionally supervised work with people in human service agencies and on-campus, faculty-guided seminars, students should be able to: critically examine their own values and personal attitudes toward the people they serve; communicate effectively with their fellow workers and the people they serve; utilize the skills they have learned by providing the appropriate support for the people they serve. (120 hours of field placement per semester and 2 hours of seminar per week)							
HUS138	AL	17564	07:00-08:50PM	W	LYNN	3.0	STAFF
HUS138	R	16684	12:30-02:20PM	M	DANVERS	3.0	B CIARAMELLA
HUS139 FIELD PLACEMENT AND SEMINAR 3 FOR THE HUMAN SERVICES PRACTITIONER							
<i>Pre: Communications proficiency; HUS137 Co: HUS138</i>							
Through professionally supervised work with people in human service agencies and on-campus, faculty-guided seminars, students should be able to: critically examine their own values and personal attitudes toward the people they serve; communicate effectively with their fellow workers and the people they serve; utilize the skills they have learned by providing the appropriate support for the people they serve. (120 hours of field placement per semester and 2 hours of seminar per week)							
HUS139	AD	17566	07:00-08:50PM	M	DANVERS	3.0	STAFF
HUS139	LR	16685	10:30-12:20PM	F	LYNN	3.0	B CIARAMELLA
IDS: INTERDISCIPLINARY STUDIES							
IDS102 POPULAR CULTURE AND MEDIA							
<i>Pre: Communications proficiency</i>							
This course examines popular culture in its many forms and media. Students will learn to assess, explain, and analyze products of popular culture by connecting them with overall cultural values, norms, and ideologies. Issues related to popular culture such as consumerism, mass media, technology, and viewer participation will be explored. Students will learn to become better communicators, and interpreters of cultural products. Fulfills humanities, liberal arts, and open electives.							
*IDS102D OL	16560				ONLINE	3.0	L EATON
<i>*IDS102D OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							

INTERDISCIPLINARY STUDIES

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
IDS106 UNDERSTANDING NUTRITION							
<i>Pre: Communications proficiency</i>							
This course presents an overview of human nutrition by exploring nutrients and how they function in the body. In addition, students will learn tools for planning adequate diets for individuals and groups. The role of foods and nutrients in health and disease is discussed throughout the course, underlining the use of research to validate nutrition claims. Prior coursework in biology and/or chemistry is helpful, but not required. Fulfills open, liberal arts, social science and science electives. (3 hours of lecture per week)							
IDS106	AD	10456	07:00-09:45PM	M	DANVERS	3.0	STAFF
*IDS106	OL1	10457			ONLINE	3.0	B LUCAS
*IDS106 OL1 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
*IDS106	OL2	17272			ONLINE	3.0	B LUCAS
*IDS106 OL2 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
IDS108 INFORMATION TECHNOLOGY, SOCIETY AND CULTURE							
<i>Pre: Communications proficiency, CPS100</i>							
A study of the continuing revolution in information technology and its effects on global culture. Includes an analysis of the social, cultural and economic impact of computers and information technology and an examination of the psychological, ethical and philosophical implications of these new technologies. Various topics including online gaming culture, virtual reality and social media will be explored. Fulfills humanities, liberal arts, and open electives.							
*IDS108	OL	17076			ONLINE	3.0	R CAPRA
*IDS108 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
IDS112 ARTISTIC VISION							
<i>Pre: Communications proficiency</i>							
The emphasis of this introductory humanities course is on developing interest in and understanding of art, music, and literature by examining works from ancient to modern times. It includes a consideration of the role of the arts in heightening our awareness of ourselves and the world as well as how art can call attention to social issues such as threats to the environment. No background in the arts is required. Fulfills open, humanities, and liberal arts electives.							
*IDS112	OL	17073			ONLINE	3.0	T WHITNEY
*IDS112 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
IDS122 MUSIC AND HEALING							
<i>Pre: Communications proficiency</i>							
Explores music's relationship to psychological and physiological well-being, the effect of noise pollution and the importance of early infancy and childhood familial environment for language acquisition. Recent scientific findings in cymatics, brain research, the electromagnetic properties of the body, hemispheric-synchronization and psycho-acoustics will be discussed. No prior knowledge of music is necessary. Fulfills open, liberal arts and humanities electives.							
IDS122	J	10459	08:00-09:15AM	T R	DANVERS	3.0	M STEMP
IDS130 ETHICS AND HOLISTIC HEALTH PRACTITIONERS							
<i>Pre: Communications proficiency</i>							
Specific ethical considerations for holistic medicine form the basis for this course. Students will learn the ethical standards appropriate for careers in alternative and complementary medicine; these apply to individual practitioners as well as those working in organizations.							
*IDS130	OL	17514			ONLINE	1.0	J OCCHIPINTI
*IDS130 OL meets for five weeks from April 9 - May 8. Deadline for 100% refund of tuition and fees: April 9. Withdrawal Deadline: April 30. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
IDS138 GEO-CULTURAL DEVELOPMENT OF NEW ENGLAND AND THE NORTH SHORE							
<i>Pre: Communications proficiency</i>							
An introductory level geo-cultural history of the land, the people, and the unique role that New England and the North Shore area has played in the developing story of our country. This course will explore the evolution of common New England social institutions and cultural traditions using theory, discussion, and visits to key historic sites. The approach will be interdisciplinary utilizing concepts and methodologies from several of the social sciences and interactive as all students are expected to participate in a collective learning process. Fulfills open, liberal arts, and social science electives.							
IDS138	AD	14323	07:00-09:45PM	M	DANVERS	3.0	STAFF
IDS140 REIKI 1 – TRADITIONAL USUI METHOD							
<i>Pre: Communications proficiency</i>							
Reiki (pronounced Ray-Key) is a system by which energy is transferred through the hands. Energy flows through the practitioner to another person. Its gentle hand patterns are designed to bring the body to a state of relaxation and balance, enhancing the body's natural ability to heal itself. No special skills or belief systems are necessary. Through the assistance of the instructor, students will gain the ability to transmit Reiki's healing energy. Students will learn the history of Reiki, to use the hands to scan for general vitality, scan the energy centers (chakras). Fulfills open, liberal arts, and humanities electives.							
IDS140	AD	10466	07:00-09:45PM	W	DANVERS	3.0	STAFF
IDS140	R	13038	02:00-04:45PM	R	DANVERS	3.0	STAFF
IDS142 GLOBAL CONFLICTS AND HUMAN BEHAVIOR							
<i>Pre: Communications proficiency</i>							
Using resources from the disciplines of literature and psychology, this course will examine the Holocaust as the prime example of ethnic and racial hatred in the 20th century. A case study approach will be used to make connections between the Holocaust and the escalating incidents of ethnic/racial/religious aggression and intolerance taking place currently in the United States and in the international arena. Attention will be given to such trouble spots as South Africa, Guatemala, and Bosnia. Fulfills open, liberal arts, social science, and humanities electives.							
*IDS142	OL	10957			TBA	3.0	L DAVIS
*IDS142 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
IDS148 YOGA, MEDITATION, AND STRESS MANAGEMENT 1							
<i>Pre: Communications proficiency</i>							
Through lecture, discussion, and experiential exercises, the student will learn physical skills and breathing techniques that help to revitalize and quiet the mind. Practical applications of a series of gentle yogic movements, meditative techniques, and non-verbal communication skills including listening to the mind/body and recognition of the body's various energetic/emotional levels will promote self-awareness. An overview of different health systems will be offered to establish a common ground of understanding useful in one's professional and personal life. Designed for students of all ages and physical abilities. Fulfills open, liberal arts, and humanities electives.							
IDS148	AL	10468	06:30-09:15PM	T	LYNN	3.0	E EPSTEIN
IDS148	LR	16650	04:00-06:45PM	M	LYNN	3.0	E EPSTEIN
IDS148	R	10469	02:00-04:45PM	R	DANVERS	3.0	E EPSTEIN

INTERDISCIPLINARY STUDIES

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
IDS150 HERBAL PHARMACOLOGY							
<i>Pre: Communications and Mathematics proficiencies</i>							
This course is an introduction to traditional healing with herbs. The knowledge of herbs gained will permit some use for personal and family health plus preparing the student for more advanced study. The actions and composition of herbs as well as legal, political implications, and contraindications will be studied. Fulfills open, liberal arts, and IDS-science electives.							
IDS150	AD	10817	06:30-09:15PM	T	DANVERS	3.0	STAFF
IDS154 LITERATURE OF THE HOLOCAUST							
<i>Pre: Communications proficiency</i>							
Provides a factual background, psychological insights and analyses of the responses to the Holocaust in diaries, memoirs, fiction, poetry, drama, film, music and art. Principles of social psychology will be applied to better understand the Holocaust from the perspective of the perpetrators, victims, witnesses, resisters, liberators, survivors and their descendants. Fulfills open, liberal arts, humanities, behavioral science, and social science electives.							
IDS154	L	10955	11:00-12:15PM	T R	DANVERS	3.0	S BROWN
IDS156 CULTURAL HISTORY OF FOOD							
<i>Pre: Communications proficiency</i>							
This course examines the nature and evolution of the world's major cuisines from a historical and geographic perspective. It will include indigenous and foreign influences on cuisine, regional variations, the evolution of professional cooking and restaurants, and a segment on researching and updating foods and recipes from earlier times. Fulfills open, liberal arts, and humanities electives.							
IDS156	R	12931	01:30-02:45PM	M W	AGGIE	3.0	STAFF
IDS168 EXPLORING THE LANDSCAPE OF SUSTAINABILITY							
<i>Pre: Communications proficiency</i>							
This course examines a range of sustainability issues that affects us all. Student will be encouraged to think about how their various choices in life and careers can and do affect their local communities, the environment and future generations. Topics include calculating and reducing carbon footprints, green building design, green roof and wall technologies, water conservation, community gardens, composting and low-impact sustainable landscapes. Students will also complete a Service-Learning project. Fulfills liberal arts and open electives.							
*IDS168	OL	17074			ONLINE	3.0	B HEATH
<i>*IDS168 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus. This is a Service-Learning course.</i>							
IDS174 SCHOOL VIOLENCE							
<i>Pre: Communications proficiency</i>							
This course will study the problem of school violence, its causation and cures. The areas of focus will include: school violence that stems in large part from individual idiosyncratic personality traits, school violence that can be best understood in terms of societal structure, and school violence that can be traced to gang activity. Solutions and programs that have been attempted to fight this problem nationwide and in Massachusetts in particular, will be presented and evaluated. Fulfills open, liberal arts, social science, and behavioral science electives.							
IDS174	C	14951	10:30-11:20AM	M W F	DANVERS	3.0	R ROESLER
IDS174	LE	16757	12:30-01:20PM	M W F	LYNN	3.0	R ROESLER
IDS205 COMMUNITY PROBLEMS AND SOCIAL ISSUES							
<i>Pre: Communications and Mathematics proficiencies</i>							
Explores the process of socialization and the relationship between the mental health delivery system and current social issues. Examines social issues from the functionalist, conflict and interactionist perspectives. Introduces students to the role local, state and federal governments play in responding to social issues and how students can become civically engaged in affecting public policy decisions and priorities. Fulfills open and liberal arts electives. (Formerly MEH205)							
*IDS205	LR	16109	02:00-04:50PM	W	LYNN	3.0	M LABELLA
<i>*This is a Service-Learning course.</i>							
*IDS205	OL	16110			ONLINE	3.0	M LABELLA
<i>*IDS205 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
IEL: INDUSTRIAL ELECTRONICS							
IEL102 ELECTRICAL PRINCIPLES 2							
<i>Pre: IEL101, MAT135 Co: EUT104 and EUT106</i>							
Presents the foundations of basic AC circuit analysis. Topics for parallel and series circuits include: voltage and current sources, phase and phasor relations, resistance, inductance and capacitance in sinusoidal driven circuits and Bode plots. Thevenin's, Norton's, maximum power and superposition theorems will be applied. Transient behavior of networks, transformers and filters will be analyzed. Computer software tools and laboratory experience are utilized to reinforce concepts. (4 lecture hours, 2 lab hours per week)							
*IEL102	LR	15686	08:00-09:15AM 01:00-02:50PM	M F M	LYNN LYNN	4.0	G WALSH
<i>*IEL102 LR is reserved for students in the Energy Utility Technology program.</i>							
IEL104 ELECTRICAL CIRCUITS							
<i>Pre: MAT135 Co: CPS190</i>							
This course will train students in the applications of Ohm's Law, Kirchoff's Laws, Thevenin's and Norton's theorems, and superposition to the analysis of DC and AC passive circuits, including R-L-C circuits, impedances, phase angles, and transformers.							
*IEL104	OL	15687			ONLINE	4.0	STAFF
<i>*IEL104 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
IEL226 ELECTRONIC SYSTEMS FOR TELECOMMUNICATIONS 2							
<i>Pre: IEL225</i>							
Students practice the analysis and application of advanced electronic circuits as applied to the telecommunications industry. Topics include frequency modulation, communication: techniques, digital, wired, and wireless, transmission lines, antennas, and fiber optics. Troubleshooting and analysis by computer simulation software is stressed throughout.							
*IEL226	OL	17020			ONLINE	4.0	STAFF
<i>*IEL226 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							

INTERNATIONAL STUDIES

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
INT: INTERNATIONAL STUDIES							
INT600 INTERNATIONAL STUDY							
<i>Pre: CQPA 2.5 and CMP101, 24 credits</i>							
Students may earn up to 15 college credits for successfully completing NSCC-approved semester or short-term study abroad coursework. The Center for Alternative Studies manages agreements of cooperation with recognized U.S.-based academic credit programs, internationally based Spanish immersion institutes, and NSCC faculty-supervised study. Opportunities currently focus on more than 20 universities primarily based in Europe and Australia for full-semester study, and five programs based in Latin America and West Africa for short-term study. Eligible students must meet NSCC and affiliate program registration requirements and pay all fees at least 90 days prior to international study. Credits are transcribed with a letter grade of "Pass/Fail" in accordance with the grading mode of the course or NSCC/CAS program. Please contact the Center for Alternative Studies for prerequisite guidelines.							
INT600	AL	17245			TBA	12.0	STAFF
LIT: LITERATURE							
LIT204 BRITISH LITERATURE 2: 19TH CENTURY TO PRESENT							
<i>Pre: 6 credits of Freshman Composition</i>							
Students read, interpret, and discuss selected works of major British writers from the 19th century to the present. Among the authors whose works may be studied are Keats, Browning, Tennyson, Bronte, Woolf, and Yeats. Fulfills open, liberal arts, advanced literature, and humanities electives.							
LIT204	K	15591	09:30-10:45AM	T R	DANVERS	3.0	L ALTOMARI
LIT206 WORLD LITERATURE 1: ANCIENT WORLD TO 18TH CENTURY							
<i>Pre: 6 credits of Freshman Composition</i>							
Students read, interpret, and discuss selected works of major writers of the world from the Ancient World to the 18th century. Among the authors whose works may be studied are Homer, Sophocles, Sappho, Dante, Cervantes, Shakespeare, and Lao Tzu. Fulfills open, liberal arts, advanced literature, and humanities electives.							
LIT206	AD	16675	06:30-09:15PM	R	DANVERS	3.0	STAFF
LIT206	C	17451	10:30-11:20AM	M W F	DANVERS	3.0	STAFF
LIT206	E	17128	12:30-01:20PM	M W F	DANVERS	3.0	STAFF
LIT206	L	15592	11:00-12:15PM	T R	DANVERS	3.0	M MAROLD
LIT206	LC	16064	10:30-11:20AM	M W F	LYNN	3.0	M SHERF
LIT206	LJ	10051	08:00-09:15AM	T R	LYNN	3.0	STAFF
LIT206	LN	17453	02:00-03:15PM	T R	LYNN	3.0	STAFF
*LIT206	OL	10795			ONLINE	3.0	T WHITNEY
*LIT206 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
LIT208 WORLD LITERATURE 2: 18TH CENTURY TO PRESENT							
<i>Pre: 6 credits of Freshman Composition</i>							
Students read, interpret, and discuss selected works of major writers of the world from the 18th century to the present. Among the authors whose works may be studied are Goethe, Chekhov, Voltaire, Ibsen, Lessing, Douglass, and Kafka. Fulfills open, liberal arts, advanced literature, and humanities electives.							
LIT208	AL	10487	06:30-09:15PM	T	LYNN	3.0	STAFF
LIT208	B	10018	09:30-10:20AM	M W F	DANVERS	3.0	S HANLON
LIT208	D	17452	11:30-12:20PM	M W F	DANVERS	3.0	STAFF
LIT208	LB	10052	09:30-10:20AM	M W F	LYNN	3.0	J ZAMPARELLI
LIT208	LG	17454	02:30-03:45PM	M W	LYNN	3.0	STAFF
LIT208	LM	10053	12:30-01:45PM	T R	LYNN	3.0	M SHERF
LIT208	N	16647	02:00-03:15PM	T R	DANVERS	3.0	STAFF
*LIT208	OL1	11068			ONLINE	3.0	STAFF
*LIT208 OL1 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
LIT208	P	17138	03:30-04:45PM	T R	DANVERS	3.0	STAFF
LIT210 AMERICAN LITERATURE 1: COLONIAL PERIOD TO THE CIVIL WAR							
<i>Pre: 6 credits of Freshman Composition</i>							
Students read, interpret, and discuss selected works from the Age of Exploration to the Civil War. Among the authors whose works may be studied are Smith, Bradstreet, Franklin, Wheatley, Douglass, Thoreau, Poe, Hawthorne, Whitman, and Dickinson. Fulfills open, liberal arts, advanced literature, and humanities electives.							
LIT210	AL	10990	06:30-09:15PM	T	LYNN	3.0	STAFF
LIT210	AD	17140	04:00-05:15PM	M W	DANVERS	3.0	STAFF
LIT210	L	10019	11:00-12:15PM	T R	DANVERS	3.0	L CARLSON
LIT210	LB	10054	09:30-10:20AM	M W F	LYNN	3.0	J SOFERR
*LIT210	OL	12924			ONLINE	3.0	STAFF
*LIT210 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
LIT212 AMERICAN LITERATURE 2: CIVIL WAR TO THE MODERN AGE							
<i>Pre: 6 credits of Freshman Composition</i>							
Students read, interpret, and discuss selected works from the Civil War to contemporary times. Among the authors whose works may be studied are Jewett, Twain, Chopin, Frost, Hughes, Hemingway, O'Neill, Morrison, Updike, and Erdrich. Fulfills open, liberal arts, advanced literature, and humanities electives.							
LIT212	AD	10488	06:30-09:15PM	T	DANVERS	3.0	STAFF
LIT212	AL	12259	07:00-09:45PM	W	LYNN	3.0	STAFF
LIT212	G	17141	02:30-03:20PM	M W F	DANVERS	3.0	STAFF
LIT212	K	10020	09:30-10:45AM	T R	DANVERS	3.0	C KEEBAUGH
LIT212	LE	12925	12:30-01:20PM	M W F	LYNN	3.0	C KEEBAUGH
LIT212	LJ	15057	08:00-09:15AM	T R	LYNN	3.0	STAFF
*LIT212	OL	12926			ONLINE	3.0	D WILLIAMS
*LIT212 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
LIT212	P	16648	03:30-04:45PM	T R	DANVERS	3.0	STAFF

LITERATURE

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
LIT216 LITERATURE OF THE AMERICAN PEOPLES 2: LATIN AMERICAN LITERATURE							
<i>Pre: Composition 1 and 2 option</i>							
Students will read, interpret, and discuss selected works of major Latin American writers of the 20th century in English translations and bilingual texts. Among the authors whose works may be studied are Neruda, Valenzuela, Lispector, Cortazar, Borges, Garcia Marquez, and Vargas Llosa. Fulfills open, liberal arts, humanities, and advanced literature electives.							
LIT216	LD	15058	11:30-12:20PM	M W F	LYNN	3.0	T MAGNOLIA

LSC: LIBRARY SCIENCE

LSC101 RESEARCH METHODS

Teaches students the skills necessary to access, evaluate, and use print, electronic, and Internet resources. Through exercises and a final research project, students will gain practical experience necessary for success in their college careers and beyond.

*LSC101	LR	16135	11:00-12:15PM	T	TBA	1.0	T DUKES
*LSC101 LR meets January 24 - April 3 in the Lynn library. Deadline for 100% refund of tuition and fees: January 29. This course needs a minimum of eight students in order to run.							
*LSC101	R	16695	11:00-12:15PM	R	TBA	1.0	W MEUNIER
*LSC101 R runs January 26 - April 5 in the Danvers library. Deadline for 100% refund of tuition and fees: January 29. This course needs a minimum of eight students in order to run.							

MAC: MEDICAL ASSISTING

MAC144 MEDICAL ASSISTING PRACTICUM

Pre: BIO108, CMP101, MAC142, OFT101, and OFT116 Co: ALH156, MAC146, OFT219, and PHI120

This course is the clinical connection for principles learned in MAC142, Medical Assisting Clinical and Laboratory Procedures; MAC146, Advanced Medical Procedures; and OFT219, Medical Office Procedures. It serves as a vehicle for the application of the clinical/office procedures introduced in the classroom/demonstration laboratory. Seminars allow for the discussing and sharing of practicum experiences based on journal presentations and for preparing students for employment through workshops on topics such as: health care law/ethics, business communications, professionalism, resumé preparation and interviewing skills. (176 minimum unpaid hours of practicum in an ambulatory care setting and 12 hours of on-campus seminar)

MAC144	R	15030	08:00-04:30PM 10:30-11:20AM	T R W	TBA DANVERS	4.0	STAFF
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MAC146 ADVANCED MEDICAL ASSISTANT PROCEDURES

Pre: BIO108, CMP101, MAC142, OFT101, and OFT116 Co: ALH156, MAC144, OFT219, and PHY120

This course responds to the rapidly expanding clinical and administrative responsibilities of the medical assistant in the managed care environment. It is designed to expand the basic knowledge and skills in the area of diagnostic procedures, medical specialties, surgical procedures, patient education, and office management. Basic pharmacological principles and drug classifications will be covered, with an emphasis on commonly prescribed medications in the ambulatory health care setting. (2 hours lecture and 2 hours lab per week) (Formerly ALH146)

MAC146	R	15031	08:30-10:20AM	W F	DANVERS	3.0	STAFF
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MAT: MATHEMATICS

MAT011 FUNDAMENTALS OF MATHEMATICS

This course will emphasize basic mathematics skills, including estimation, operations with whole numbers, decimals and fractions and simple percents. Mathematical vocabulary, study skills and manipulatives will be integrated throughout the course. This course fulfills no elective requirement. (4 hours of lecture per week)

MAT011	AD	14337	05:00-06:45PM	M W	DANVERS	4.0	STAFF
MAT011	AL	10915	06:30-08:15PM	T R	LYNN	4.0	STAFF
MAT011	BL	13709	04:30-06:15PM	M W	LYNN	4.0	STAFF
MAT011	LR1	10718	08:10-09:20AM	M W F	LYNN	4.0	STAFF
*MAT011	LR2	10720	12:30-01:40PM	M W F	LYNN	4.0	J CARTER

*This class meets three times a week in a computer lab using Web-based math software MyMathLab. Classwork and the majority of homework assignments will be completed on MyMathLab. In addition to in-class work, students are required to complete at least 3 hours a week on MyMathLab. Students should have Internet access outside of class. MyMathLab is available in the computer labs on campus. The MyMathLab access code must be purchased from the college bookstore before the first day of class.

MAT011	LR3	16604	09:30-10:40AM	M W F	LYNN	4.0	STAFF
MAT011	LR4	16605	10:50-12:00AM	M W F	LYNN	4.0	STAFF
*MAT011	LR5	16128	08:10-09:20AM	M W F	LYNN	4.0	E LUCAS

*This class meets three times a week in a computer lab using Web-based math software MyMathLab. Classwork and the majority of homework assignments will be completed on MyMathLab. In addition to in-class work, students are required to complete at least 3 hours a week on MyMathLab. Students should have Internet access outside of class.

MyMathLab is available in the computer labs on campus. The MyMathLab access code must be purchased from the college bookstore before the first day of class.

*MAT011	R1	10723	09:30-10:40AM	M W F	DANVERS	4.0	M PEASE
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*This class meets three times a week in a computer lab using Web-based math software MyMathLab. Classwork and the majority of homework assignments will be completed on MyMathLab. In addition to in-class work, students are required to complete at least 3 hours a week on MyMathLab. Students should have Internet access outside of class.

MyMathLab is available in the computer labs on campus. The MyMathLab access code must be purchased from the college bookstore before the first day of class.

*MAT011	R3	12706	12:30-01:40PM	M W F	DANVERS	4.0	N JAIN
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*This class meets three times a week in a computer lab using Web-based math software MyMathLab. Classwork and the majority of homework assignments will be completed on MyMathLab. In addition to in-class work, students are required to complete at least 3 hours a week on MyMathLab. Students should have Internet access outside of class.

MyMathLab is available in the computer labs on campus. The MyMathLab access code must be purchased from the college bookstore before the first day of class.

MAT013 PREALGEBRA

Pre: MAT011 with C or better or Placement Exam Score

This course is designed to prepare a student for algebra. It introduces the concept of variables, algebraic expressions, and signed numbers. It reviews operations with fractions, decimals, and percents. Mathematical reasoning, estimating, mathematical vocabulary and solving of applied problems are emphasized throughout the course.

This course fulfills no elective requirement.

MAT013	AD	10916	07:00-09:45PM	W	DANVERS	3.0	STAFF
MAT013	AL	10917	06:30-09:15PM	T	LYNN	3.0	STAFF
MAT013	BL	12279	09:30-12:15PM	S	LYNN	3.0	STAFF
MAT013	CL	13045	04:00-06:45PM	W	LYNN	3.0	STAFF
MAT013	B	11995	09:30-10:20AM	M W F	DANVERS	3.0	STAFF
MAT013	C	14340	10:30-11:20AM	M W F	DANVERS	3.0	STAFF

MATHEMATICS

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
*MAT013	D	13046	11:30-12:20PM	M W F	DANVERS	3.0	S AMRITKUMAR
*This class meets three times a week in a computer lab using Web-based math software MyMathLab. Classwork and the majority of homework assignments will be completed on MyMathLab. In addition to in-class work, students are required to complete at least 3 hours a week on MyMathLab. Students should have Internet access outside of class. MyMathLab is available in the computer labs on campus. The MyMathLab access code must be purchased from the college bookstore before the first day of class.							
MAT013	J	10725	08:00-09:15AM	T R	DANVERS	3.0	STAFF
MAT013	L	15699	11:00-12:15PM	T R	DANVERS	3.0	STAFF
MAT013	LA	12707	08:30-09:20AM	M W F	LYNN	3.0	STAFF
MAT013	LC1	13047	10:30-11:20AM	M W F	LYNN	3.0	W HERSEY
*MAT013	LC2	10729	10:30-11:20AM	M W F	LYNN	3.0	A O'SHEA

*This class meets three times a week in a computer lab using Web-based math software MyMathLab. Classwork and the majority of homework assignments will be completed on MyMathLab. In addition to in-class work, students are required to complete at least 3 hours a week on MyMathLab. Students should have Internet access outside of class. MyMathLab is available in the computer labs on campus. The MyMathLab access code must be purchased from the college bookstore before the first day of class.

*This class meets three times a week in a computer lab using Web-based math software MyMathLab. Classwork and the majority of homework assignments will be completed on MyMathLab. In addition to in-class work, students are required to complete at least 3 hours a week on MyMathLab. Students should have Internet access outside of class. MyMathLab is available in the computer labs on campus. The MyMathLab access code must be purchased from the college bookstore before the first day of class.

*This class meets three times a week in a computer lab using Web-based math software MyMathLab. Classwork and the majority of homework assignments will be completed on MyMathLab. In addition to in-class work, students are required to complete at least 3 hours a week on MyMathLab. Students should have Internet access outside of class. MyMathLab is available in the computer labs on campus. The MyMathLab access code must be purchased from the college bookstore before the first day of class.

*This class meets three times a week in a computer lab using Web-based math software MyMathLab. Classwork and the majority of homework assignments will be completed on MyMathLab. In addition to in-class work, students are required to complete at least 3 hours a week on MyMathLab. Students should have Internet access outside of class. MyMathLab is available in the computer labs on campus. The MyMathLab access code must be purchased from the college bookstore before the first day of class.

*MAT013 M 17487 12:30-01:45PM T R DANVERS 3.0 N JAIN

*This class meets three times a week in a computer lab using Web-based math software MyMathLab. Classwork and the majority of homework assignments will be completed on MyMathLab. In addition to in-class work, students are required to complete at least 3 hours a week on MyMathLab. Students should have Internet access outside of class. MyMathLab is available in the computer labs on campus. The MyMathLab access code must be purchased from the college bookstore before the first day of class.

MAT091 ELEMENTARY ALGEBRA 1

Pre: MAT013 with C or better or Placement Exam Score

A coverage of essential topics in elementary algebra. The course is designed for students who have never taken high school algebra, did not complete high school algebra successfully, or have been out of school long enough to need a review of the basic concepts of algebra. Topics include: operations on integers, basic principles of using variables, linear equations and inequalities, applications problems and graphing linear equations. This course fulfills no elective requirements. (Formerly numbered MAT101)

MAT091	AD	10734	06:30-09:15PM	R	DANVERS	3.0	STAFF
MAT091	AL	10735	06:30-09:15PM	T	LYNN	3.0	STAFF
MAT091	BL	13049	04:00-06:45PM	W	LYNN	3.0	STAFF
MAT091	LR	10736	03:30-06:15PM	R	LYNN	3.0	STAFF
MAT091	A	14339	08:30-09:20AM	M W F	DANVERS	3.0	STAFF
MAT091	B	13050	09:30-10:20AM	M W F	DANVERS	3.0	STAFF
MAT091	C	15733	10:30-11:20AM	M W F	DANVERS	3.0	STAFF
MAT091	D	10738	11:30-12:20PM	M W F	DANVERS	3.0	STAFF
MAT091	E	10737	12:30-01:20PM	M W F	DANVERS	3.0	STAFF
MAT091	F	16707	01:30-02:20PM	M W F	DANVERS	3.0	STAFF
MAT091	J	10739	08:00-09:15AM	T R	DANVERS	3.0	STAFF
MAT091	LA	13051	08:30-09:20AM	M W F	LYNN	3.0	STAFF
MAT091	LB	10744	09:30-10:20AM	M W F	LYNN	3.0	J CARTER
MAT091	LC	15732	10:30-11:20AM	M W F	LYNN	3.0	STAFF
MAT091	LD	10746	11:30-12:20PM	M W F	LYNN	3.0	W HERSEY
MAT091	LE	12708	12:30-01:20PM	M W F	LYNN	3.0	E LUCAS
MAT091	LF	16708	01:30-02:20PM	M W F	LYNN	3.0	S ROBINSON
MAT091	LJ	17060	08:00-09:15AM	T R	LYNN	3.0	STAFF
MAT091	LK	13767	09:30-10:45AM	T R	LYNN	3.0	STAFF
MAT091	LL	10745	11:00-12:15PM	T R	LYNN	3.0	STAFF
MAT091	LR1	17288	08:00-09:15AM	M W	LYNN	3.0	R PONTICELLI
MAT091	M	10741	12:30-01:45PM	T R	DANVERS	3.0	STAFF
*MAT091	OL	12229			ONLINE	3.0	STAFF

*MAT091 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus. On-site testing or testing at another proctored location is required for this course.

MAT091	R	14338	03:30-06:15PM	T	DANVERS	3.0	STAFF
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MAT092 ELEMENTARY ALGEBRA 2

Pre: MAT091 or MAT101 with a grade of C or better

A continuation of MAT091-Elementary Algebra 1. Topics include: factoring polynomials, fractional algebraic expressions and equations, systems of equations, radicals, and quadratic equations. This course fulfills no elective requirements. (Formerly numbered MAT102)

MAT092	AD	10950	06:30-09:15PM	T	DANVERS	3.0	STAFF
MAT092	AL	10757	07:00-09:45PM	W	LYNN	3.0	STAFF
MAT092	A1	16098	08:30-09:20AM	M W F	DANVERS	3.0	STAFF
MAT092	A2	10754	08:30-09:20AM	M W F	DANVERS	3.0	STAFF
MAT092	C	13052	10:30-11:20AM	M W F	DANVERS	3.0	STAFF
MAT092	E	15335	12:30-01:20PM	M W F	DANVERS	3.0	M PEASE
MAT092	G	17251	02:30-03:45PM	M W	DANVERS	3.0	N JAIN
MAT092	LB	10764	09:30-10:20AM	M W F	LYNN	3.0	STAFF
MAT092	LC	10765	10:30-11:20AM	M W F	LYNN	3.0	STAFF
MAT092	LD	10766	11:30-12:20PM	M W F	LYNN	3.0	STAFF
MAT092	LK	12891	09:30-10:45AM	T R	LYNN	3.0	J CARTER
MAT092	LN	16611	02:00-03:15PM	T R	LYNN	3.0	STAFF
MAT092	M	10919	12:30-01:45PM	T R	DANVERS	3.0	STAFF
*MAT092	OL	12888			ONLINE	3.0	S ROBINSON

*MAT092 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus. On-site testing or testing at another proctored location is required for this course.

MATHEMATICS

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
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MAT094 INTERMEDIATE ALGEBRA

Pre: Placement Exam Score

Designed for students who have completed two years of high school algebra. Primary topics in MAT091 - Elementary Algebra 1 and MAT092 - Elementary Algebra 2 are covered in an intensive, rapid format. Topics include: algebraic operations, fractional algebraic expressions and equations, solution of linear, quadratic, and systems of equations, factoring, radicals, fractional and negative exponents, graphing linear and quadratic equations. This course fulfills no elective requirements. (4 hours of lecture per week) (Formerly numbered MAT104)

MAT094	AD	10767	06:30-10:00PM	T	DANVERS	4.0	STAFF
MAT094	LR1	10768	11:30-12:40PM	M W F	LYNN	4.0	R MASAGUTOVA
MAT094	LR2	10769	08:10-09:20AM	M W F	LYNN	4.0	W HERSEY
MAT094	LR3	15698	12:30-01:40PM	M W F	LYNN	4.0	STAFF
MAT094	R1	10770	08:10-09:20AM	M W F	DANVERS	4.0	STAFF
MAT094	R2	12890	11:00-12:10PM	M W F	DANVERS	4.0	STAFF
MAT094	R3	16776	12:30-01:40PM	M W F	DANVERS	4.0	S AMRITKUMAR
MAT094	R4	17061	02:00-03:10PM	M W F	DANVERS	4.0	STAFF

MAT140 LIBERAL ARTS MATHEMATICS

Pre: MAT092, 094, 131 or 135 with a C or better or Placement Exam and Communications Proficiency

A course consisting of mathematical topics chosen to provide an overview of a broad range of higher mathematics to aid students in interpreting and understanding current issues and to increase students' ability to reason and think critically. Topics may include but are not limited to reasoning and problem solving, sets, logic, social choice, numeration systems, growth and symmetry, and fractals. MAT102 and 104 are equivalent to MAT092 and 094. Fulfills open, liberal arts, and mathematics electives.

MAT140	AD	13711	06:30-09:15PM	R	DANVERS	3.0	STAFF
MAT140	A	14920	08:30-09:20AM	M W F	DANVERS	3.0	STAFF
MAT140	B	14341	09:30-10:20AM	M W F	DANVERS	3.0	STAFF
MAT140	K	10774	09:30-10:45AM	T R	DANVERS	3.0	S AMRITKUMAR
MAT140	LC	10775	10:30-11:20AM	M W F	LYNN	3.0	R MASAGUTOVA
MAT140	LK	13712	09:30-10:45AM	T R	LYNN	3.0	A O'SHEA
*MAT140	OL	12892			ONLINE	3.0	E LUCAS

*MAT140 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus. On-site testing or testing at another proctored location is required for this course.

MAT143 INTRODUCTION TO STATISTICS

Pre: MAT092, 094, 131 or 135 with a C or better or Placement Exam and Communications Proficiency

This course is an introduction to descriptive and inferential statistics and the basic laws of probability as used in business, social science, or education. Topics examined are: frequency distributions, measures of central tendency, measures of dispersion, normal distributions, confidence intervals, sampling, introduction to hypothesis testing, correlation, and linear regression. Other topics such as chi-square distribution and F-distribution will be covered as time permits. The course emphasizes the practical understanding and use of concepts and procedures essential to statistical analysis (statistical software may be used at the instructor's discretion for solving applied problems). Fulfills open, liberal arts and mathematics electives.

MAT143	AD	10776	06:30-09:15PM	T	DANVERS	3.0	STAFF
MAT143	AL	12894	06:30-09:15PM	R	LYNN	3.0	N JAIN
MAT143	D	13713	11:30-12:20PM	M W F	DANVERS	3.0	M PEASE
MAT143	E	16717	12:30-01:20PM	M W F	DANVERS	3.0	STAFF
MAT143	L	10777	11:00-12:15PM	T R	DANVERS	3.0	S AMRITKUMAR
MAT143	LB	10778	09:30-10:20AM	M W F	LYNN	3.0	E LUCAS
MAT143	LL	14342	11:00-12:15PM	T R	LYNN	3.0	W HERSEY
MAT143	LR	17488	12:30-01:45PM	M W	LYNN	3.0	R PONTICELLI
*MAT143	OL	15693			ONLINE	3.0	STAFF

*MAT143 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus. On-site testing or testing at another proctored location is required for this course.

MAT144 MATH FOR ELEMENTARY SCHOOL TEACHERS 1

Pre: Communications and Mathematics proficiency, MAT092 or 094 with grade of C or better or Placement Exam

This course is designed for prospective elementary school teachers. This course focuses on the group properties of the real number system as the foundation for computation algorithms in arithmetic, the basic conceptual underpinnings of algebra, and problem-solving methods using either arithmetic or algebra. Numeration systems, divisibility properties, and problem solving in various contexts are stressed. This course is intended to provide students with an understanding and appreciation for learning and teaching mathematics as described in the NCTM Standards for School Mathematics. This course includes an exposure to relevant technology, calculators, and computers and how these can effectively be used in the instruction of mathematics to enhance the understanding and visualization of mathematics. This course fulfills liberal arts, math, and open electives.

MAT144	AL	17489	07:00-09:45PM	W	LYNN	3.0	STAFF
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MAT146 MATH FOR ELEMENTARY SCHOOL TEACHERS 2

Pre: MAT092 or 094 with C or better or Placement Exam Score

This course is designed for prospective elementary school teachers. This course develops an understanding of the mathematical concepts of geometric figures and solids, congruence, similarity, constructions, measurement, geometric transformations, and descriptive statistics. This course is intended to provide students with an understanding and appreciation for learning and teaching mathematics as described in the NCTM Standards for School Mathematics. This course includes an exposure to relevant technology, calculators, and computers and how these can effectively be used in the instruction of mathematics to enhance the understanding and visualization of mathematics. Fulfills liberal arts, math, and open electives.

MAT146	AD	17490	07:00-09:45PM	W	DANVERS	3.0	STAFF
MAT146	LR	16612	03:45-06:30PM	R	LYNN	3.0	STAFF

MAT151 PRECALCULUS 1

Pre: MAT092 or 094 or 131 or 135 with C or better or Placement Exam Score

First of a two-course sequence which prepares students for the study of Calculus. A study of advanced topics in algebra including: equations, inequalities, circles, functions, properties of functions, zeros of polynomial functions and complex numbers, graphs of functions including polynomial and rational functions. Conic sections and advanced topics in systems of equations will be included as time permits. Fulfills open, liberal arts, and mathematics electives. (Formerly titled College Algebra 1)

MAT151	AD	10780	07:00-09:45PM	W	DANVERS	3.0	STAFF
MAT151	AL	10781	06:30-09:15PM	T	LYNN	3.0	STAFF
MAT151	A	10779	08:30-09:20AM	M W F	DANVERS	3.0	M PEASE
MAT151	D	10837	11:30-12:20PM	M W F	DANVERS	3.0	N JAIN
MAT151	K	12895	09:30-10:45AM	T R	DANVERS	3.0	STAFF
MAT151	LA	17104	08:30-09:20AM	M W F	LYNN	3.0	R MASAGUTOVA
MAT151	LD	10813	11:30-12:20PM	M W F	LYNN	3.0	STAFF

MATHEMATICS

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
MAT151	LE	10783	12:30-01:20PM	M W F	LYNN	3.0	S ROBINSON
MAT151	LK	10782	09:30-10:45AM	T R	LYNN	3.0	W HERSEY
*MAT151	OL	16099			ONLINE	3.0	STAFF
*MAT151 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus . On-site testing or testing at another proctored location is required for this course.							
MAT152 PRECALCULUS 2							
<i>Pre: MAT151 with C or better or Placement Exam Score</i>							
Second of a two-course sequence which prepares students for the study of Calculus. Topics include exponential, logarithmic and trigonometric functions, graphs of trigonometric functions, trigonometric identities and equations, inverse trigonometric and applications of trigonometry. Complex numbers, sequences and series, and polar coordinates may be included as time permits. Fulfills open, liberal arts, and mathematics electives. (Formerly titled College Algebra 2)							
MAT152	AD	10784	07:00-09:45PM	W	DANVERS	3.0	STAFF
MAT152	AL	10785	07:00-09:45PM	W	LYNN	3.0	STAFF
MAT152	C	12896	10:30-11:20AM	M W F	DANVERS	3.0	STAFF
MAT152	K	10786	09:30-10:45AM	T R	DANVERS	3.0	N JAIN
MAT152	LB	10787	09:30-10:20AM	M W F	LYNN	3.0	A O'SHEA
MAT152	LM	10788	12:30-01:45PM	T R	LYNN	3.0	R PONTICELLI
MAT251 CALCULUS 1							
<i>Pre: MAT152/200 with C or better or Placement Exam Score</i>							
A study of differential calculus. Topics include: functions, limits, differentiation of algebraic, trigonometric and inverse trigonometric, exponential and logarithmic functions, applications including related rates, curve sketching and optimization problems. Fulfills open, liberal arts, and mathematics electives. (4 hours of lecture per week)							
MAT251	AD	10790	06:30-08:20PM	T R	DANVERS	4.0	STAFF
MAT251	LR1	10791	08:10-09:20AM	M W F	LYNN	4.0	J CARTER
MAT251	LR2	17062	12:30-01:20PM	W	LYNN	4.0	A O'SHEA
			12:30-01:50PM	M F	LYNN		
MAT252 CALCULUS 2							
<i>Pre: MAT251 with C or better</i>							
A continuation of the study of calculus. Topics include: the antiderivative, the definite integral, applications of the definite integral, methods of integration, numerical integration methods, hyperbolic functions, improper integrals, sequences, infinite series and power series. Fulfills open, liberal arts, and mathematics electives. (4 hours of lecture per week)							
MAT252	AD	13054	06:30-08:20PM	T R	DANVERS	4.0	STAFF
MAT252	LR	10793	08:10-09:20AM	M W F	LYNN	4.0	S ROBINSON
MAT302 DIFFERENTIAL EQUATIONS							
<i>Pre: MAT252 with C or better</i>							
Differential equations of first order and linear equations of second order, operators, engineering applications, successive approximations, interpolation and numerical integration. Fourier series, gamma and Bessel functions and infinite series solutions to differential equations are covered. Fulfills open, liberal arts, and mathematics electives. (4 hours of lecture per week)							
MAT302	LR	10794	09:30-10:20AM	M T W R	LYNN	4.0	W STONE
MAT900 INDIVIDUALIZED MATHEMATICS REVIEW							
Provides students with the opportunity to improve their college-level or developmental mathematics skills and conceptual understanding using Web-based mathematics software. Classes meet in a computer lab with a mathematics instructor. Students are required to work on the Web-based mathematics software independently outside of class time. The level of mathematics and topics covered depends on the student's level of mathematics skills and understanding at the outset of the course. Course is graded as pass/fail. This course fulfills no elective requirement.							
*MAT900	GRB	17248	01:00-01:50PM	S	LYNN	1.0	STAFF
*MAT900 GRB is reserved for students in the Project Grad program.							
*MAT900	GRM	17153	02:00-02:50PM	S	LYNN	1.0	STAFF
*MAT900 GRM is reserved for students in the Project Grad program.							
*MAT900	OW	16613	09:00-11:00AM	T R	DANVERS	1.0	STAFF
*MAT900 OW meets January 3 - January 19. Deadline for 100% refund of tuition and fees: January 4. Withdrawal Deadline: January 12. ALEKS access code is required for the first day of class. Access codes are available at the NSCC bookstore or from www.aleks.com .							
MDA: MEDIA							
MDA108 TELEVISION STUDIES: THE BIG PICTURE							
Develops an awareness of the impact of television on society. A study of television's handling and packaging news, politics, social issues and entertainment as well as how television reflects questions, attitudes, and beliefs about ourselves and our world. Fulfills open, liberal arts, and humanities electives.							
*MDA108	CT	10578	12:30-01:45PM	M W	DANVERS	3.0	D WILLIAMS
*MDA108 CT is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom meetings.							
MDA110 FILM AND POPULAR CULTURE							
<i>Pre: Communications proficiency</i>							
After an introduction to the film medium, students examine the relationship between American film and popular culture from 1940 to the present. For each decade, students examine representative films, historical events, and popular culture trends to discover how films and American popular culture influence each other. Fulfills open, liberal arts, and humanities electives.							
*MDA110	OL	13741			ONLINE	3.0	STAFF
*MDA110 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
MEH: MENTAL HEALTH							
MEH206 ADVANCED HELPING SKILLS							
<i>Pre: HUS102</i>							
Builds upon the course Helping Skills in Human Services, focusing attention on the different action steps used to deal with specific types of problems and people. Techniques of relaxation and shaping will be covered.							
MEH206	LL	10326	11:00-12:15PM	T R	LYNN	3.0	STAFF

MANAGEMENT

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
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MGT: MANAGEMENT

MGT102 PRINCIPLES OF MANAGEMENT

Pre: Communications and Mathematics proficiencies

Covers the fundamentals of management including the functions of planning, organizing, influencing, and controlling in organizations. Prepares business students to better understand the management process.

MGT102	AD	10247	07:00-09:45PM	M	DANVERS	3.0	R CUNNEY
MGT102	AL	10248	06:30-09:15PM	T	LYNN	3.0	C SOUCY
*MGT102	CT	10207	10:30-11:20AM	M W	LYNN	3.0	U ARCOS-CASTREJON
<i>*MGT102 CT is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom meetings.</i>							
MGT102	E	10209	12:30-01:20PM	M W F	DANVERS	3.0	J BOSCO
MGT102	LJ	15641	08:00-09:15AM	T R	LYNN	3.0	STAFF
MGT102	M	10211	12:30-01:45PM	T R	DANVERS	3.0	A NEUNER
*MGT102	OL	14936			ONLINE	3.0	A NEUNER

**MGT102 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.*

MGT201 HUMAN RESOURCE MANAGEMENT

Pre: Communications and Mathematics proficiencies

Analysis of policy and administrative functions involved in human resource management. Topics include manpower planning, selection, training, communication, methods of payment and motivation, employee welfare, and research. Selected cases are employed to develop student's decision-making capability.

MGT201	AD	11162	06:30-09:15PM	T	DANVERS	3.0	STAFF
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MGT202 FINANCIAL MANAGEMENT

Pre: ACC102 or ACC108

Covers organizational and administrative tools of finance including budgets, financial analysis, financial planning, the stock market, and the time value of money. Also covers short-, intermediate-, and long-term asset financing requirements of a business enterprise.

MGT202	AL	10250	07:00-09:45PM	M	LYNN	3.0	P GARLAND
*MGT202	CT	16535	12:30-01:45PM	R	DANVERS	3.0	M FIOCCOPRILE

**MGT202 CT is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom meetings.*

MGT206 SMALL BUSINESS MANAGEMENT/ENTREPRENEURSHIP

Pre: Communications and Mathematics proficiencies

The course helps aspiring entrepreneurs learn what it takes to succeed on their own. The course shows how to investigate and evaluate business opportunities; how to establish the skill and knowledge needed to establish a new firm; how to market products and services; how to manage the human and fiscal demands of a business operation; and how to meet the organization's social responsibility to the community.

MGT206	AD	10251	06:30-09:15PM	R	DANVERS	3.0	E SILVEY
MGT206	K	14935	09:30-10:45AM	T R	DANVERS	3.0	STAFF
MGT206	LD	10212	11:30-12:20PM	M W F	LYNN	3.0	P MANNINEN

MKT: MARKETING

MKT101 MARKETING

Pre: Communications and Mathematics proficiencies

Introduces the role of marketing in business and other organizations. Basic theory and terminology are examined with emphasis on the major components of marketing: product, price, promotion, and distribution.

MKT101	AD	10253	07:00-09:45PM	W	DANVERS	3.0	G CORDETTE
MKT101	AL	10254	07:00-09:45PM	M	LYNN	3.0	J OGASIAN
MKT101	C	13684	10:30-11:20AM	M W F	DANVERS	3.0	STAFF
MKT101	G	17001	02:30-03:45PM	M W	DANVERS	3.0	STAFF
MKT101	K	10213	09:30-10:45AM	T R	DANVERS	3.0	P MANNINEN
MKT101	LB	10214	09:30-10:20AM	M W F	LYNN	3.0	P MANNINEN
MKT101	LM	10215	12:30-01:45PM	T R	LYNN	3.0	STAFF

MKT204 ADVERTISING

Pre: MKT101

Introduction to the planning, creation, and use of advertising. Explores the role of advertising in our economy and its specific use in marketing a new product. Includes advertising appeals, copywriting, layouts, printing processes, media selection, research techniques, dealer programs, national campaigns, retail and industrial advertising, and the advertising agency's function. Careers in advertising will also be surveyed.

MKT204	AD	16100	07:00-09:45PM	W	DANVERS	3.0	STAFF
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MKT205 PRINCIPLES OF RETAIL MANAGEMENT

Pre: MKT101

Covers basic principles of retailing including store location and layout, merchandise planning, purchasing, pricing strategies, inventory management, retail bookkeeping, promotion and communication. Other topics include discussion of current trends and innovations, international retailing, the effects of a changing environment on the industry, and career opportunities in retailing.

MKT205	LC	17241	10:30-11:20AM	M W F	LYNN	3.0	STAFF
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MUS: MUSIC

MUS106 MUSIC APPRECIATION FROM 1810

A listening course designed for all students which follows the history and development of music from 1810 to the present day. No previous background in music is necessary and MUS104 is not a prerequisite. A study of various historically significant works which seeks to identify what to listen for in music and emphasizes the aesthetic experience. Fulfills open, liberal arts, and humanities electives.

MUS106	L	10281	11:00-12:15PM	T R	DANVERS	3.0	J ROBINSON
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MUSIC

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
MUS112 PRIVATE INSTRUMENTAL INSTRUCTION 2 – PIANO							
Private applied music instruction in piano – beginner to advanced levels – on the Danvers campus. Levels of skill are denoted by course number – 111, 112, 211, 212 – and represent a sequential program. The student must secure own instrument and place to practice. For fee schedules, registration and academic credit the student must contact the Center for Alternative Studies and Educational Testing on the Danvers campus in the Berry Building, Room B213. Fulfills open, liberal arts and humanities electives.							
MUS112	ADS	17338			TBA	3.0	STAFF
MUS126 BASIC CONCEPTS OF MUSIC							
<i>Pre: Communications proficiency</i>							
This course focuses on the fundamentals of music such as rhythm, harmony, melody, and form. The course incorporates musical examples from Asia, Africa, Europe, and the Americas. Fulfills open, liberal arts, and humanities electives.							
*MUS126	OL	11104			ONLINE	3.0	STAFF
*MUS126 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
MUS212 PRIVATE MUSIC INSTRUCTION 4 – VOICE							
Private applied music instruction in voice – beginner to advanced levels – on the Danvers campus. Levels of skill are denoted by course number – 111, 112, 211, 212 – and represent a sequential program. The student must secure own place to practice. For fee schedules, registration and academic credit the student must contact the Center for Alternative Studies and Educational Testing on the Danvers campus in the Berry Building, Room B213. Fulfills open, liberal arts and humanities electives.							
MUS212B	DS	17341			TBA	3.0	STAFF

NSG: NURSE EDUCATION

Nursing courses are open only to students currently in the program. For information regarding admissions to the program, please visit our website.

OFT: OFFICE TECHNOLOGY

OFT101 KEYBOARDING 1: INTRODUCTION

Pre: Communications proficiency

Introduces keyboarding techniques and skill development as well as basic formatting of documents using word processing software. Keyboarding speed should be developed to a minimum of 35 wpm. Computer assignments outside of class are required. (3 hours of lecture per week)

OFT101	AL	16565	06:30-09:15PM	T	LYNN	3.0	C FIORE
OFT101	LD	10159	11:30-12:20PM	M W F	LYNN	3.0	J TERBAN

OFT102 KEYBOARDING 2: SPEED DEVELOPMENT

Pre: Communications proficiency; ability to keyboard 35 wpm

Continues to develop student's keyboarding skills with a major emphasis on speed development and formatting of basic business documents using word processing software. Keyboarding speed should be developed to a minimum of 45 wpm. Computer assignments outside of class are required. Fulfills open, health care, and office technology electives.

OFT102	LK	10162	09:30-10:45AM	T R	LYNN	3.0	B CLARK
*OFT102	OL	10177			ONLINE	3.0	B CLARK

*OFT102 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

OFT106 SPEED WRITING FOR NOTETAKING

Pre: Communications proficiency

This course offers an easy abbreviated writing system in which students learn to use letters of the alphabet, abbreviations, and other shortcuts to write faster. They also learn to be selective in what they record. There are many situations and occasions where the need for an efficient note-taking system can be helpful; such as: note-taking for classes, seminars, meetings, reports, articles, messages, speeches, journals, and research projects.

OFT106	LB	15513	09:30-10:20AM	M W F	LYNN	3.0	J TERBAN
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OFT114 BUSINESS COMMUNICATIONS

Pre: Communications proficiency

Designed to give the student a firm grasp of the principles of English grammar and punctuation. Emphasis is on the composition of business correspondence and the ability to write clearly and concisely.

OFT114	LC	10164	10:30-11:20AM	M W F	LYNN	3.0	STAFF
*OFT114	OL	10178			ONLINE	3.0	B CLARK

*OFT114 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

OFT116 MEDICAL TERMINOLOGY

Pre: Communications proficiency

Designed to instruct the student in the most common word roots, prefixes, and suffixes in medical terminology. Emphasis is on spelling, word drills, pronunciation exercises, and definition of words. The student develops a broad medical vocabulary used by professionals in medical and allied health fields. In addition, the course offers lectures, discussions, and films of current medical subjects. Fulfills open and office technology electives.

OFT116	AD	13935	07:00-09:45PM	M	DANVERS	3.0	S BATTIS
OFT116	AL	12286	09:30-12:15PM	S	LYNN	3.0	R TAHMOSH
OFT116	BL	17108	06:30-09:15PM	T	LYNN	3.0	P KULAKOWSKI
OFT116	LL	10166	11:00-12:15PM	T R	LYNN	3.0	M MCAULIFFE

OFT120 BASIC KEYBOARDING

Designed to teach basic keyboarding skills to students entering any field that utilizes a computer keyboard. Keyboarding speed should be developed to a minimum of 25 wpm. Credit for this course may be earned by challenge exam. Time will be needed in the computer lab to complete assignments. (1 hour of lecture per week)

*OFT120	OL	17271			ONLINE	1.0	J TERBAN
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*OFT120 OL meets January 23 - February 25. Deadline for 100% refund of tuition and fees: January 25. Withdrawal Deadline: February 11. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

OFFICE TECHNOLOGY

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
OFT123 WORD PROCESSING FOR THE OFFICE							
<i>Pre: Communications proficiency and ability to keyboard 35 wpm</i>							
Designed to provide students with employable skills using Microsoft Word. This comprehensive, hands-on course will progress from the basic to advanced word processing functions needed by persons wishing to be employed in business offices. Basic functions covered include creating, editing, saving, and printing documents. Merging documents, preparing labels, utilizing WordArt, modifying styles, and creating macros and forms are among the advanced functions covered. Computer assignments outside of class are required.							
*OFT123	CT	10167	12:30-01:45PM	T	LYNN	3.0	J TERBAN
*OFT123 CT utilizes Microsoft Word 2007 and is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom meetings.							
OFT124 LEGAL TERMINOLOGY							
<i>Pre: Communications proficiency</i>							
Course emphasizes the study of legal terminology in the areas of litigation, wills, estates, trusts, real property, family law, criminal law, torts, contracts, and business organization. Students will build a legal vocabulary that is highly useful in any law-related workplace environment. Fulfills open and office technology electives.							
OFT124	LC	17066	10:30-11:20AM	M W F	LYNN	3.0	J RICH
OFT134 ICD-9-CM CODING							
<i>Pre: Communications and Mathematics proficiencies Co: OFT116</i>							
Course provides a basic understanding of the ICD-9-CM coding classification system. ICD-9-CM coding conventions and instructions will be covered for each body system. Requirements for both diagnostic and procedural coding will be covered and include coding rules, guidelines and reimbursement established by the Centers for Medicare and Medicaid Services (CMS) and Prospective Payment System (PPS).							
OFT134	AL	17065	06:30-09:15PM	R	LYNN	3.0	D WEINSTEIN
OFT136 CPT-4 CODING							
<i>Pre: OFT134</i>							
Course provides a basic understanding of CPT-4/HCPCS procedural coding system with respect to professional and facility code assignment. Guidelines established by the Centers for Medicare and Medicaid Services (CMS) will be covered as well as the impact on the Prospective Payment System (PPS).							
OFT136	AD	13021	07:00-09:45PM	M	DANVERS	3.0	S BRUNDAGE
OFT138 MEDICAL CODING PRACTICUM							
<i>Pre: OFT134 with C or better Co: OFT136</i>							
Course provides students with the opportunity to apply coding principles learned in the classroom environment in an actual on-site health care facility. Facilities will include either a hospital's health-information department, physician's practice, free-standing clinic, long-term care facility, or home-health agency. The practicum consists of 30 hours as arranged between the worksite supervisor and the student.							
*OFT138	AD	13022	05:30-06:45PM	M	DANVERS	1.0	STAFF
*OFT138 AD is a 30-hour supervised workplace experience. An orientation meeting with the instructor will be announced at a later date. This course meets January 23 - March 17. Deadline for 100% refund of tuition and fees: January 25. Withdrawal Deadline: March 3.							
OFT140 COMPREHENSIVE MEDICAL TRANSCRIPTION							
<i>Pre: Keyboard 35 wpm, OFT116, or knowledge of medical terminology Co: OFT114</i>							
Introduces the student to transcription of vital medical records and reports using medical terminology and state-of-the-art transcribing equipment. Professional resource material will be examined and referenced in order to expand the students' knowledge. Fulfills open and office technology electives.							
OFT140	LR	16779	12:30-02:20PM	M W	LYNN	4.0	M MCAULIFFE
OFT150 INTERPERSONAL SKILLS IN THE WORKPLACE							
<i>Pre: Communications proficiency</i>							
Course will emphasize "soft skills" – trust, confidence, empathy, adaptability and self-control – so necessary to be successful in the workplace today. Students will learn to communicate and collaborate effectively with others whose personalities, approaches, and work styles may differ from their own. Course will emphasize workplace readiness skills – time management, attendance, professional appearance, respecting confidentiality, adapting to change, working with others, and conflict management. Fulfills open and office technology electives.							
OFT150	LL	15062	11:00-12:15PM	T R	LYNN	3.0	J RICH
OFT201 KEYBOARDING 3: ADVANCED DOCUMENT PROCESSING							
<i>Pre: Communications proficiency and ability to keyboard 45 wpm</i>							
This course emphasizes the application of document production skills in a variety of office settings. Includes composing, formatting, revising, and editing advanced documents. Also incorporates decision-making, communications, and analytical skills in completing projects using an integrated software program. Keyboarding speed should be developed to a minimum of 55 wpm. Computer assignments outside of class are required. Fulfills open and office technology electives. (3 hours of lecture per week)							
OFT201	LK	10169	09:30-10:45AM	T R	LYNN	3.0	M MCAULIFFE
OFT209 INFORMATION TRANSCRIPTION							
<i>Pre: Communications proficiency; Keyboard 45 wpm; OFT114</i>							
Provides the student with experience in transcribing business correspondence from taped dictation. Language arts skills, including spelling, punctuation, and grammar, are combined with advanced keyboarding and listening skills to develop transcription productivity of business documents. Emphasis is on business English, mailability, and production. Fulfills open and office technology electives.							
*OFT209	OL	10170			ONLINE	3.0	B CLARK
*OFT209 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
OFT219 MEDICAL OFFICE PROCEDURES							
<i>Pre: Communications proficiency; OFT101 Co: OFT116 Medical Terminology</i>							
Designed to introduce the medical assistant to the administrative aspects of the medical office including telephone etiquette and triage, appointment scheduling, patient intake, billing systems, insurance claims, medical records, and related professional activities. Emphasis is placed on high standards of ethics in relation to the patient and the medical profession. Fulfills open and office technology electives.							
OFT219	LR	17088	10:30-11:45AM	M W	LYNN	3.0	M MCAULIFFE
OFT219	R	10172	10:30-01:15PM	F	DANVERS	3.0	M MCAULIFFE
OFT222 SPREADSHEET AND PRESENTATION APPLICATIONS							
<i>Pre: Keyboard 35 wpm</i>							
This capstone course incorporates decision-making, communications, and proofreading skills in a variety of computer assignments. Includes hands-on training in computer applications utilizing Microsoft Excel and Microsoft PowerPoint. Also focuses on current issues in the automated office. Fulfills open, health care, and office technology electives.							
OFT222	AL	10196	09:30-12:15PM	S	LYNN	3.0	STAFF

OFFICE TECHNOLOGY

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
OFT226 RECORDS MANAGEMENT AND DATABASE APPLICATION							
<i>Pre: Ability to keyboard 35 wpm</i>							
Presents the organization and implementation of an integrated records management program. Topics include the procedures to manage, supervise, and staff a records management center. A database software, Microsoft ACCESS, will be used. Fulfills open and office technology electives.							
*OFT226	CT	10199	12:30-01:45PM	R	LYNN	3.0	J TERBAN
<i>*OFT226 CT is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom meetings.</i>							
OFT240 ADMINISTRATIVE OFFICE MANAGEMENT							
<i>Pre: Knowledge of Administrative Office Procedures</i>							
Prepares administrative assistants with the administrative and supervisory skills needed in today's automated office. Focuses on basic management theories, the effects of automation in the office, utilization of human resources, and administration and control of office operations. Fulfills open and office technology electives.							
OFT240	AL	16566	06:30-09:15PM	W	LYNN	3.0	J SMITH

OTA: OCCUPATIONAL THERAPY ASSISTANT

OTA courses are open only to students currently in the program. For information regarding admissions to the program, please visit our website.

PER: PERSONAL DEVELOPMENT

PER102 RESUMÉ WRITING AND JOB INTERVIEW TECHNIQUES

Intended to increase student awareness and develop the communications skills necessary in seeking and obtaining employment. Emphasis will be placed on self-evaluation and skills identification in the resumé-writing and job interview process.

*PER102	WT	15734	11:30-12:20PM	W	DANVERS	1.0	M FIGGINS-HILL
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**PER102 WT is reserved for students in the Women in Transition program.*

PER110 CAREER AND LIFE PLANNING

Open to all students. This course is designed to develop the student's awareness of personal values, needs, skills, and interests as they relate to careers. Students will participate in exercises designed to help them establish and plan for life goals.

*PER110	LR	17524	01:30-02:45PM	M	LYNN	1.0	STAFF
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**PER110 LR is reserved for students in the Bridges to the Stars program.*

PER114 DECISION MAKING

Introduce students to a systematic decision-making process that will give them more freedom and control in their lives. Students will learn how to make decisions that will bring about more desirable outcomes, discover more about themselves and their environment, and increase the chances of achieving what they want in life.

*PER114	LV	17526	09:00-02:00PM	T W R	LYNN	1.0	STAFF
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**PER114 LV is reserved for students in the Challenges, Choices, and Change program. This course meets January 17 - January 19. Deadline for 100% refund of tuition and fees: January 18.*

PER124 RESEARCHING THE JOB MARKET

Examines many of the concerns of the job hunter or job changer. The student will learn how to find the hidden job market, build personal career contacts, maintain career opportunity and mobility, and establish career alternatives. The course will provide practical aids and avenues of approach to these and related concerns.

*PER124	LR	17525	03:00-04:15PM	M	LYNN	1.0	STAFF
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**PER124 LR is reserved for students in the Bridges to the Stars program.*

PER126 ASSERTIVENESS TRAINING

Designed to help one become aware of passive and/or aggressive behaviors that may be self-defeating, to communicate honestly, to direct one's feelings and beliefs appropriately, and to stand up for one's rights in such a way that the dignity and right of others are not violated.

*PER126	LV	10976	09:00-02:00PM	T W R	LYNN	1.0	STAFF
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**PER126 LV is reserved for students in the Challenges, Choices, and Change program. This course meets January 10 - January 12. Deadline for 100% refund of tuition and fees: January 10.*

PER132 RETURNING TO SCHOOL: GROWTH AND TRANSITION

Designed for the adult returning student. Emphasis will be on the students' lifestyle as they integrate and balance the demands of academic, family and work experiences. The course will utilize didactic presentations, personal and career exploration and group dynamics.

*PER132	GRB	17240	01:00-01:50PM	S	LYNN	1.0	STAFF
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**PER132 GRB is reserved for students in the Project Grad program.*

*PER132	GRE	17152	01:00-01:50PM	S	LYNN	1.0	STAFF
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**PER132 GRE is reserved for students in the Project Grad program.*

PER132	LR	17458	05:30-06:30PM	W	LYNN	1.0	STAFF
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PER134 RESILIENCE AND COPING SKILLS

This course will increase student resilience and coping abilities by providing opportunities for the study and application of communication skills, the examination and practice of stress management strategies and the exposure to and understanding of self-awareness approaches.

*PER134	PRO	16077	06:30-07:45PM	T R	LYNN	3.0	STAFF
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**PER134 PRO is reserved for students in the Project Enable program.*

PHI: PHILOSOPHY

PHI106 INTRODUCTION TO PHILOSOPHY

Pre: Communications proficiency

Introduction to philosophy as a specific way of thinking about human existence, the world, and God. It examines the arguments of philosophers concerning such topics as the existence of God, the problem of good and evil, free will and determinism, relationship of mind and body, and the limits of human knowledge. Fulfills open, liberal arts, and humanities electives.

PHI106	AD	12929	07:00-09:45PM	W	DANVERS	3.0	STAFF
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*PHI106	DVD	10288			TBA	3.0	STAFF
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**PHI106 DVD is a telecourse that uses video lectures on DVD. There is an orientation for this course. For details log on to: www.northshore.edu/elearning/campus.*

PHILOSOPHY

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
*PHI106	E	14396	12:30-01:20PM	M W F	DANVERS	3.0	F ALTIERI
<i>*This is a Service-Learning course.</i>							
PHI106	LD	14974	11:30-12:20PM	M W F	LYNN	3.0	STAFF
*PHI106	LL	11106	11:00-12:15PM	T R	LYNN	3.0	F ALTIERI
<i>*This is a Service-Learning course.</i>							
PHI106	P	14973	03:30-04:45PM	T R	DANVERS	3.0	STAFF

PHI116 ETHICS

Pre: Communications proficiency

Study of the philosophical approach to moral experience. A systematic inquiry into human conduct with the purpose of discovering both the rules that ought to govern human action and the goods that are worth seeking in human life. Both classical and contemporary philosophers are studied. The student is confronted with the moral beauty of Socrates and Plato, the naturalism of Aristotle, and the depth of Augustine, the categorical imperative of Kant, and the hard paradox of Kierkegaard. Fulfills open, liberal arts, and humanities electives.

*PHI116	F	16652	01:30-02:20PM	M W F	DANVERS	3.0	F ALTIERI
<i>*This is a Service-Learning course.</i>							
*PHI116	LK	10290	09:30-10:45AM	T R	LYNN	3.0	F ALTIERI
<i>*This is a Service-Learning course.</i>							
PHI116	M	14976	12:30-01:45PM	T R	DANVERS	3.0	STAFF
PHI116	N	16653	02:00-03:15PM	T R	DANVERS	3.0	STAFF

PHI120 MEDICAL ETHICS

Pre: Communications proficiency

Recent developments in the bio-medical fields have led to considerable moral perplexity about the rights and duties of patients, health professionals, research subjects, and researchers. This course presents a brief introduction to ethical theory and a set of diverse, carefully selected readings (pro and con) on some of the most contemporary issues in bioethics. Some of these issues that will be analyzed and discussed are the following: abortion and infanticide, the problems of birth defects, euthanasia, psycho-surgery, behavior and genetic control, and the claim to health care. Fulfills open, liberal arts and humanities electives.

PHI120	R	10291	12:30-01:45PM	M W	DANVERS	3.0	STAFF
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PHI126 ENVIRONMENTAL ETHICS

Pre: Communications proficiency

A philosophical approach to environmentalism examining the ethical presuppositions that underlie our conception of value, the diverse worldviews offered by environmentalists, and the potential responses to ecological degradation. Topics include animal liberation, deep ecology, ecofeminism and environmental activism, among others. Fulfills open, liberal arts, humanities, and green electives.

*PHI126	C	17068	10:30-11:20AM	M W F	DANVERS	3.0	F ALTIERI
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**This is a Service-Learning course.*

PHY: PHYSICS

PHY201 PHYSICS 1

Pre: Communications proficiency, MAT152 with C or better, Physics at high school or college level Co: MAT251

Calculus-based physics course for students of science and engineering. The general subject covered is mechanics. Topics include: vectors, accelerated motion, Newton's laws of motion, work and energy, momentum, and rotational kinematics and dynamics. Fulfills open, liberal arts, and with PHY202 or PHY301 or PHY302, laboratory science

PHY201	LB	10700	09:30-10:20AM 01:30-03:20PM	M W F W	LYNN LYNN	4.0	J JEONG
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PHY202 PHYSICS 2

Pre: PHY201 Co: MAT252

Continuation of Physics 1. Topics include: simple harmonic motion, gravitation, fluid mechanics, waves, the kinetic theory of gases, and the first and second laws of thermodynamics. Fulfills open, liberal arts, and with PHY201, laboratory science sequence electives. (3 hours of lecture, 2 hours of lab per week)

PHY202	LD	10704	11:30-12:20PM 01:30-03:20PM	M W F M	LYNN LYNN	4.0	J JEONG
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PHY301 PHYSICS 3

Continuation of Physics 2. The general subjects are electricity and magnetism. Topics include: Coulomb's Law, Gauss' Law, electric potential, capacitance, circuits, the magnetic field, electromagnetic induction, and inductance. Fulfills open, liberal arts, and with PHY201, laboratory science sequence electives. (3 hours of lecture, 2 hours of lab per week)

PHY301	LL	10709	11:00-12:15PM 12:30-02:20PM	T R R	LYNN LYNN	4.0	STAFF
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PLG: PARALEGAL

PLG101 INTRODUCTION TO LAW AND PARALEGAL PRACTICE

Pre: Communications proficiency

Introduction to the American legal system and the paralegal profession, including the functions of a paralegal, ethical principles, federal and state court structures, litigation, sources of law, legal research and reasoning, investigation and interviewing, law office management, employment strategies and career perspectives.

*PLG101	OL	10805			ONLINE	3.0	J LEVESQUE
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**PLG101 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus. This is also a Writing-Supported course.*

PLG102 LEGAL RESEARCH

Pre: Communications proficiency

Introduction to legal research, methods and writing. Course will include the use of reporters, statutes, digests, citators, encyclopedias, legal periodicals and practice manuals. Emphasis placed on developing strategies for researching legal questions. Students will also learn the mechanics of writing case briefs and legal memoranda.

PLG102	AD	12164	06:30-09:15PM	W	DANVERS	3.0	STAFF
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PARALEGAL

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
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PLG104 BASIC CRIMINAL LAW AND PROCEDURE

Pre: Communications proficiency

A basic introduction for paralegals to criminal law and procedures which examines criminal case law and criminal statutes. In addition, current constitutional criminal law issues are explored with an emphasis on developing analytical skills of the paralegal.

*PLG104 OL 14435

ONLINE 3.0

K HIRBOUR

*PLG104 OL is a Distance-Learning course with an orientation. For details long on to: www.northshore.edu/elearning/campus.

PLG106 LEGAL WRITING

Pre: CMP101, PLG101, and PLG102

An introduction to the fundamentals of legal writing including legal reasoning and analysis, the writing process, proper citation form, and a review of grammar, punctuation, and style. Emphasis will be placed on development of the drafting skills necessary for pleadings, briefs, memoranda, and correspondence. This course will continue to refine legal research techniques.

PLG106 AL 10883 06:30-09:15PM R LYNN 3.0 STAFF

PLG106 K 10539 09:30-10:45AM T R DANVERS 3.0 K HIRBOUR

PLG201 ESTATES AND TRUSTS

Pre: PLG101, PLG102

Introduction to the law of wills and trusts. Includes the organization and function of the probate court, the laws of intestate succession, preparation and execution of wills, the most common forms of trusts, probate and administration of estates, tax considerations.

PLG201 AD 10540 09:30-12:15PM S DANVERS 3.0 STAFF

PLG202 LITIGATION

Pre: Communications proficiency

Introduction to civil litigation. Includes the organization and jurisdiction of federal and state courts; preparation of pleadings, motions, interrogatories, depositions and trial notebooks; investigation, digesting documents, interviewing clients; trial and appellate procedures. The fundamental principles of the law of torts will also be presented since the course will focus on the trial and appeal of personal injury actions.

PLG202 AD 16854 09:30-12:15PM S DANVERS 3.0 STAFF

PLG202 L 10541 11:00-12:15PM T R DANVERS 3.0 K HIRBOUR

PLG203 BUSINESS ORGANIZATIONS

Pre: PLG101, PLG102

Study of the principles of law governing the formation and operation of sole proprietorships, partnerships, limited partnerships, business trusts and corporations. Includes the preparation of the documents necessary for the organization and maintenance of each business entity.

PLG203 R 10542 10:30-11:45AM W F DANVERS 3.0 K HIRBOUR

PLG204 FAMILY LAW

Pre: PLG101, PLG102

Introduces students to all areas of family law: divorce, separation, adoptions, guardianships, annulments, cohabitation, child custody, abuse and neglect. Emphasis will be placed on developing skills for working with clients and drafting the necessary legal documents.

PLG204 B 10543 08:00-09:15AM W F DANVERS 3.0 J LEVESQUE

PLG205 COMPUTER APPLICATIONS FOR THE LAW OFFICE

Pre: Communications proficiency; CPS100

Introduction to computer applications within the law firm. This course focuses on document preparation, timekeeping, docket control, litigation support, case management, e-mail communications, Internet and computer-assisted legal research. Review of word processing, database management, and spreadsheet design is included.

PLG205 AD 14981 06:30-09:15PM T DANVERS 3.0 STAFF

PLG206 FIELD PLACEMENT FOR PARALEGALS

Pre: PLG201, PLG104, BUS102, and RES204 Co: PLG203, PLG204

Through professionally supervised work at law firms, government agencies, the courts, corporate offices or legal services, and faculty-guided seminars, skills learned in the classroom will be applied to working situations. Each 3 credits of field placement involves 120 hours of on-site legal work and 2 hours in weekly on-campus seminar.

Instructor will conduct periodic site visits.

PLG206 R 10544 08:30-10:20AM M DANVERS 3.0 J LEVESQUE

PLG206 R1 17282 02:00-03:50PM M DANVERS 3.0 J LEVESQUE

PNR: PRACTICAL NURSING

PNR courses are open only to students currently in the program. For information regarding admissions to the program, please visit our website.

PSY: PSYCHOLOGY

PSY102 INTRODUCTORY (GENERAL) PSYCHOLOGY

Pre: Communications proficiency

Systematic study of behavior including the development of psychology as a science, the biological basis of behavior, learning and memory, motivation, sensation and perception, personality development, cognitive processes, maturation and development, and adjustment. Fulfills open, liberal arts, social science, and behavioral science electives.

PSY102 AD 10372 07:00-09:30PM R DANVERS 3.0 R ZOLLO

PSY102 AL 10373 06:30-09:15PM R LYNN 3.0 K WALTMAN

PSY102 BD 10371 07:00-09:45PM T DANVERS 3.0 S GRAHAM

PSY102 BL 12276 05:30-08:20PM F LYNN 3.0 STAFF

PSY102 CD 12914 04:00-06:45PM T DANVERS 3.0 S GRAHAM

PSY102 DD 13031 07:00-09:45PM M DANVERS 3.0 STAFF

PSY102 DL 14353 09:30-12:15PM S LYNN 3.0 G LEVIS

PSY102 R1 16640 04:00-05:15PM M W DANVERS 3.0 J BARR

PSY102 B 10374 09:30-10:20AM M W F DANVERS 3.0 L AZZARA

PSY102 CL 10383 03:30-06:15PM R LYNN 3.0 K WALTMAN

PSY102 D 10376 11:30-12:20PM M W F DANVERS 3.0 STAFF

PSY102 E 14352 12:30-01:20PM M W F DANVERS 3.0 K ERBETTA

PSYCHOLOGY

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
PSY102	F	14961	01:30-02:20PM	M W F	DANVERS	3.0	STAFF
PSY102	J	10377	08:00-09:15AM	T R	DANVERS	3.0	J BACON
PSY102	K	16106	09:30-10:45AM	T R	DANVERS	3.0	S HAGERICH
PSY102	L	10378	11:00-12:15PM	T R	DANVERS	3.0	J BACON
PSY102	LA1	17168	08:30-09:20AM	M W F	LYNN	3.0	STAFF
PSY102	LA2	14422	08:30-09:20AM	M W F	LYNN	3.0	J BARR
PSY102	LC1	10381	10:30-11:20AM	M W F	LYNN	3.0	S BROWN
PSY102	LD	14962	11:30-12:20PM	M W F	LYNN	3.0	S BROWN
PSY102	LJ	10379	08:00-09:15AM	T R	LYNN	3.0	J HARRIS

*This is a Service-Learning course.

PSY102 LK 17167 09:30-10:45AM T R Lynn 3.0 P DRAKE

PSY102 LL 16346 11:00-12:15PM T R LYNN 3.0

PSY102 LM 14400 12:30-01:45PM T R LYNN 3.0

*PSY102 LP 16661 03:30-05:00PM T R LYNN 3.0

*PSY102 LP is a late-starting course and begins January 31. Registration is ongoing through January 31.

*PSY102 LT1 11041 09:30-10:20AM M W F LYNN 3.0

*PSY102 LT1 is reserved for students in the Trio Linked Learning program. For information about Trio, call 978-739-5439.

*PSY102 LT2 12915 12:30-01:20PM M W F LYNN 3.0

*PSY102 LT2 is reserved for students in the Trio Linked Learning program. For information about Trio, call 978-739-5439.

PSY102 M 13540 12:30-01:45PM T R DANVERS 3.0

*PSY102 OL1 12191 ONLINE 3.0

*PSY102 OL1 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus. This is also a Service-Learning course.

*PSY102 OL2 15327 ONLINE 3.0

*PSY102 OL2 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

*PSY102 OL3 17082 ONLINE 3.0

*PSY102 OL3 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

*PSY102 OW1 14714 ONLINE 3.0

*PSY102 OW1 will be offered during intersession: January 3 - January 28. Deadline for 100% refund of tuition and fees: January 4. Withdrawal Deadline: January 14. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

*PSY102 OW2 13065 ONLINE 3.0

*PSY102 OW2 will be offered during intersession: January 3 - January 28. Deadline for 100% refund of tuition and fees: January 4. Withdrawal Deadline: January 14. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

*PSY102 T1 11040 12:30-01:20PM M W F DANVERS 3.0

*PSY102 T1 is reserved for students in the Trio Linked Learning program. For information about Trio, call 978-739-5439.

*PSY102 T2 10375 10:30-11:20AM M W F DANVERS 3.0

*PSY102 T2 is reserved for students in the Trio Linked Learning program. For information about Trio, call 978-739-5439.

*PSY102 WT 15665 09:30-10:20AM M W F DANVERS 3.0

*PSY102 WT is reserved for students in the Women in Transition program.

PSY110 ORGANIZATIONAL PSYCHOLOGY AND THE WORKPLACE

Pre: Communications proficiency

This course examines how psychological principles are applied to the behaviors of people in work settings with such topics as: industrial/organizational psychology, personnel selection, performance appraisal, training, leadership, motivation, organizing the workplace, moral issues, safety and health, and stress. Fulfills open, liberal arts, social science, and behavioral science electives.

PSY110 AL 16649 05:30-06:45PM M W LYNN 3.0 STAFF

PSY110 N 17218 02:00-03:15PM T R DANVERS 3.0 STAFF

PSY112 INTRODUCTION TO GERONTOLOGY

Pre: Communications proficiency

Surveys major areas of concern in gerontology, including the physiological aspects of aging. Particular emphasis will be made in developmental tasks, role change in the family, community and the larger society, personal adjustment, facing death, economics, and societal responses to aging. Fulfills open, liberal arts, social science, and behavioral science electives.

PSY112 AD 17148 06:30-09:15PM R DANVERS 3.0 STAFF

PSY114 CHILD PSYCHOLOGY

Pre: PSY102

This course is an introduction to the field of child psychology with emphasis on the influence of society and culture on development from the prenatal period to adolescence.

This course stresses the role of heredity, environment, family, and development of cognitive functioning. Salient research will be summarized and presented. Fulfills open, liberal arts, social science, and behavioral science electives.

PSY114 AL 15100 04:00-06:45PM W LYNN 3.0 STAFF

PSY118 HUMAN GROWTH AND DEVELOPMENT

Pre: PSY102

Study of the development sequences of growth from prenatal to death, including the methodological problems of developmental studies, individual differences, the interplay of heredity and environment and the development of language, motivation, and motor behavior. Fulfills open, liberal arts, social science, and behavioral science electives.

PSY118 AD 10388 07:00-09:45PM M DANVERS 3.0 STAFF

PSY118 AL 10389 06:30-09:15PM R LYNN 3.0 STAFF

*PSY118 A 10888 08:30-09:20AM M W F DANVERS 3.0 L AZZARA

*This is a Service-Learning course.

PSY118 F 16540 01:30-02:20PM M W F DANVERS 3.0

PSY118 LA 17219 08:30-09:20AM M W F LYNN 3.0

PSY118 LJ 10394 08:00-09:15AM T R LYNN 3.0

PSY118 LL 17169 11:00-12:15PM T R LYNN 3.0

PSY118 LN 10392 02:00-03:15PM T R LYNN 3.0

*PSY118 OL1 14354 ONLINE 3.0

*PSY118 OL1 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

*PSY118 OL2 17083 ONLINE 3.0

*PSY118 OL2 is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

PSYCHOLOGY

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
*PSY118	OW1	11046			ONLINE	3.0	STAFF
*PSY118 OW1 will be offered during intersession: January 3 - January 28. Deadline for 100% refund of tuition and fees: January 4. Withdrawal Deadline: January 14. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
*PSY118	OW2	14715			ONLINE	3.0	STAFF
*PSY118 OW2 will be offered during intersession: January 3 - January 28. Deadline for 100% refund of tuition and fees: January 4. Withdrawal Deadline: January 14. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
*PSY118	OW3	16365			ONLINE	3.0	STAFF
*PSY118 OW3 will be offered during intersession: January 3 - January 28. Deadline for 100% refund of tuition and fees: January 4. Withdrawal Deadline: January 14. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
*PSY118	R	16348	12:30-03:45PM	T	DANVERS	3.0	STAFF
*PSY118 R runs for 12 weeks from January 30 - April 28. Deadline for 100% refund of tuition and fees: February 5. Withdrawal deadline for a W grade: April 14.							

PSY136 PERSPECTIVES ON CHILD ABUSE

Pre: Communications proficiency

Considers the issue of childism, as an attitude of unthinking and automatic superiority of elders over children. Topics will include but not be limited to: psychological attitudes and behavior society has toward children, motivational and dynamic aspects of abuses, behavior, victim reactions, environmental and chance factors contributing to child abuse, the effects of child abuse on the physical, emotional, psychological, social, and intellectual development of the child. Fulfills open, liberal arts, social science, and behavioral science electives.

*PSY136	OL	10402			ONLINE	3.0	STAFF
*PSY136 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							

PSY140 DEATH AND DYING

Pre: Communications proficiency

Examines cognitive and affective level responses to death, dying people, and the social-psychological patterns surrounding them. It examines methods of working with loss and terminally ill individuals and their families. Fulfills open, liberal arts, behavioral science, and social science electives.

PSY140	K	10403	09:30-10:45AM	T R	DANVERS	3.0	STAFF
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PSY142 HUMAN SEXUAL BEHAVIOR

Pre: Communications proficiency

Human Sexual Behavior includes the diversity of topics necessary to obtain a holistic understanding of human sexual behavior. Aspects of sex and sexuality to be studied include: biological and developmental perspectives, clinical differentiation of sexual values; sexual physiology; sexual orientation; sexually transmitted diseases; contraception; sexual dysfunction; and sex therapy. Fulfills open, liberal arts, and social science electives.

*PSY142	OL	12194			ONLINE	3.0	STAFF
*PSY142 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus .							
*PSY142	OW	17244			ONLINE	3.0	STAFF

*PSY142 OW is an intersession course which meets January 3 - January 28. Deadline for 100% refund of tuition and fees: January 4. Withdrawal Deadline: January 14. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

PSY206 SOCIAL PSYCHOLOGY

Pre: PSY102 or SOC106

Study of an individual's influence on social groups and of various group influences on the individual. Situations involving friendship, work, and social organizations will be analyzed as well as the influence of mass media and advertising. The course will involve analysis of people's drive for power, aggression, prejudice, leadership, and conformity from both the sociological and psychological perspectives. Constructive alternatives to current social problems will be presented. Fulfills open, liberal arts, social science, and behavioral science electives.

*PSY206	LC	17440	10:30-11:20AM	M W F	LYNN	3.0	J HARRIS
*This is a Service-Learning course.							
PSY206	M	15138	12:30-01:45PM	T R	DANVERS	3.0	P BATES

PSY208 THEORIES OF PERSONALITY

Pre: PSY102

This course explores the major theories in the field of personality psychology, including Psychoanalytical, Trait, Biological, Humanistic, Behavioral/Social Learning, and Cognitive approaches. Research methods and relevant research are presented with the goal toward understanding personality structure and its development, human motives and traits, and their assessment. Fulfills open, liberal arts, social science, and behavioral science electives. (Formerly PSY130)

PSY208	C	16542	10:30-11:20AM	M W F	DANVERS	3.0	L AZZARA
*PSY208	LB	17441	09:30-10:20AM	M W F	LYNN	3.0	J HARRIS

*This is a Service-Learning course.

PSY210 ABNORMAL PSYCHOLOGY

Pre: PSY102 or PSY118

This course is a study of the common forms of maladaptive behavior. It concentrates on the major perspectives, classification, and study of the various mental and emotional disorders, illustrative cases, and concepts for prevention. Fulfills open, liberal arts, social science, and behavioral science electives.

PSY210	AL	12916	06:30-09:15PM	R	LYNN	3.0	STAFF
PSY210	K	12192	09:30-10:45AM	T R	DANVERS	3.0	L AZZARA
*PSY210	LK	17213	09:30-10:45AM	T R	LYNN	3.0	J HARRIS

*This is a Service-Learning course.

PTA: PHYSICAL THERAPIST ASSISTANT

PTA courses are open only to students currently in the program. For information regarding admissions to the program, please visit our website.

YOUTH WORKER

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
PYW: YOUTH WORKER							
PYW222 SEMINAR AND PRACTICE OF YOUTH WORK							
<i>Pre: Communications proficiency, PYW101 Co: PSY102</i>							
This course provides the opportunity for students to engage in the practical application of Youth Work. Through a 120-hour internship, students will work with youth in a number of youth service agencies. Through the process of 30 hours (2 hours per week) of group discussions, reflection and assigned activities, the students will demonstrate their mastery of established core competencies of youth work.							
PYW222	LR	17044	08:30-10:20AM	T	LYNN	3.0	STAFF
RAD: RADIOLOGIC TECHNOLOGY							
<i>RAD courses are open only to students currently in the program. For information regarding admissions to the program, please visit our website.</i>							
REL: RELIGION							
REL102 GREAT RELIGIONS OF THE WORLD							
Examines the beliefs, practices and lifestyles of devout Hindus, Buddhists, Confucianists, Jews, Christians and Moslems. Among the topics covered are their views of God, morality, death, and the good life. Fulfills open, liberal arts and humanities electives.							
REL102	AD	14805	07:00-09:45PM	W	DANVERS	3.0	STAFF
REL102	LR	17512	03:30-06:15PM	W	LYNN	3.0	STAFF
REL104 UNDERSTANDING ISLAMIC FAITH							
<i>Pre: Communications proficiency</i>							
This course explores Islam through a lens of Religious Studies. We will engage the sacred sources in Islamic thought from our own perspectives, and try to understand how these have been experienced, interpreted, and understood by Muslims themselves. We will not attempt to define one Islam, but rather explore the diversity with which the life of Muhammad, and the Qur'an have been influencing religious life for the past 1,400-some years. Fulfills open, humanities and liberal arts electives.							
REL104	K	16170	09:30-10:45AM	T R	DANVERS	3.0	STAFF
RES: REAL ESTATE							
RES201 REAL ESTATE PRINCIPLES AND PRACTICES 1							
<i>Pre: Communications and Mathematics proficiencies</i>							
Provides information which prepares students for the Mass Real Estate Salesperson Examination and for entry-level positions in real estate sales. Topics include real property concepts, ownership rights, zoning, forms of ownership, real estate contracts, title transfer, types of mortgages, lending practices, sources of financing, real estate taxes, leases, appraisal, and real estate math. This course is licensed by the Massachusetts Board of Registration of Real Estate Brokers and Salespeople.							
RES201	AD	17384	07:00-09:45PM	W	DANVERS	3.0	A NEUNER
RES204 REAL ESTATE LAW							
<i>Pre: Communications and Mathematics proficiencies</i>							
Study of the basic principles of modern real estate law with emphasis on the laws of Massachusetts. Stress is upon current real estate transactions.							
*RES204	CT	10255	07:00-09:45PM	M	LYNN	3.0	D DIGIOVANNI
<i>*RES204 CT is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom hours. The classroom meeting dates are: January 30, February 6, February 13, March 5, and March 12.</i>							
RSP: RESPIRATORY CARE							
<i>RSP courses are open only to students currently in the program. For information regarding admissions to the program, please visit our website.</i>							
SCI: SCIENCE							
SCI102 INTEGRATED SCIENCE 2							
<i>Pre: Communications and Mathematics proficiencies and SCI101</i>							
Integrated Science 2 is a continuation of Integrated Science 1. It introduces the student to the basic concepts of geology, meteorology and biology. Using inquiry-based activities, the student will explore these principles as well as the technologies associated with them. Lectures and laboratory periods are closely integrated. Fulfills open, liberal arts, science electives and with SCI101, fulfills laboratory science sequence electives.							
*SCI102	CT1	16593	12:30-02:20PM	M	LYNN	4.0	S STIMPSON
<i>*SCI102 CT1 is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom meetings.</i>							
*SCI102	CT2	14335	03:45-05:35PM	M	LYNN	4.0	STAFF
<i>*SCI102 CT2 is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom meetings.</i>							
SCI102	J1	17057	08:00-09:15AM	T R	DANVERS	4.0	S STIMPSON
			10:30-12:20PM	T	DANVERS		
SCI102	J2	17058	08:00-09:15AM	T R	DANVERS	4.0	S STIMPSON
			10:30-12:20PM	R	DANVERS		

SOCIOLOGY

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
SOC: SOCIOLOGY							
SOC104 CRIMINOLOGY							
<i>Pre: Communications proficiency</i>							
Study of criminal and delinquent behavior in the United States with emphasis on measures of preventive control and treatment. Crime and delinquency are examined as personal and social problems. Fulfills open, liberal arts and social science electives.							
SOC104	AD1	16669	04:00-06:45PM	W	DANVERS	3.0	P KEATING
SOC104	AD2	16663	06:30-09:15PM	R	DANVERS	3.0	STAFF
SOC104	AL	13734	04:00-06:45PM	M	LYNN	3.0	R MORI
SOC104	D	10405	11:30-12:20PM	M W F	DANVERS	3.0	J MANLEY
SOC104	K	10406	09:30-10:45AM	T R	DANVERS	3.0	J MANLEY
SOC104	LC	10407	10:30-11:20AM	M W F	LYNN	3.0	STAFF
*SOC104	OL	14401			ONLINE	3.0	STAFF
<i>*SOC104 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
SOC106 INTRODUCTION TO SOCIOLOGY							
<i>Pre: Communications proficiency</i>							
Introduction to the study of society, employing all the basic concepts of sociology, such as: the structure and functions of society, culture, norms, roles and status. Attention is given to the origins of sociology, its methods and its place as one of the social sciences. Fulfills open, liberal arts and social science electives.							
SOC106	AD	10408	07:00-09:45PM	M	DANVERS	3.0	A GILIBERTO
SOC106	AL	12275	09:30-12:15PM	S	LYNN	3.0	E CROWLEY
*SOC106	AW1	14713			TBA	3.0	A MURPHY
<i>*SOC106 AW1 will be offered during intersession: January 3 - January 28. Deadline for 100% refund of tuition and fees: January 4. Withdrawal Deadline: January 14. This course has an orientation. For details log on to: www.northshore.edu/elearning/campus. This is an audiocourse that uses audiotape lectures on CD. This is not an online course.</i>							
*SOC106	B	10410	09:30-10:20AM	M W F	DANVERS	3.0	R ADELMAN
<i>*SOC106 B is a Service-Learning course.</i>							
*SOC106	C	10411	10:30-11:20AM	M W F	DANVERS	3.0	R ADELMAN
<i>*This is a Service-Learning course.</i>							
*SOC106	E	14437	12:30-01:20PM	M W F	DANVERS	3.0	R ADELMAN
<i>*This is a Service-Learning course.</i>							
*SOC106	L	10890	11:00-12:15PM	T R	DANVERS	3.0	R ADELMAN
<i>*This is a Service-Learning course.</i>							
SOC106	LB	10412	09:30-10:20AM	M W F	LYNN	3.0	STAFF
SOC106	LD	16858	11:30-12:20PM	M W F	LYNN	3.0	STAFF
*SOC106	LE	10026	12:30-01:20PM	M W F	LYNN	3.0	STAFF
<i>*This is a Service-Learning course.</i>							
SOC106	LG	16662	02:30-03:45PM	M W	LYNN	3.0	J FOWLIE
SOC106	LJ	10414	08:00-09:15AM	T R	LYNN	3.0	STAFF
SOC106	LL	10413	11:00-12:15PM	T R	LYNN	3.0	STAFF
SOC106	LP2	14967	03:30-06:15PM	R	LYNN	3.0	STAFF
*SOC106	OL	13064			ONLINE	3.0	STAFF
<i>*SOC106 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
*SOC106	OW	17513			ONLINE	3.0	STAFF
<i>*SOC106 OW is offered during intersession: January 3 - January 28. Deadline for 100% refund of tuition and fees: January 4. Withdrawal Deadline: January 14. This is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.</i>							
SOC106	P	16642	03:30-06:15PM	T	DANVERS	3.0	STAFF
SOC106	P1	14966	03:30-06:15PM	R	DANVERS	3.0	P DRAKE
SOC120 SOCIOLOGY OF WORK AND LABOR							
<i>Pre: Communications and Mathematics proficiencies</i>							
Key curriculum content areas are labor history, labor-management relations, collective bargaining issues, organizational structure, and application of umbrella competencies. Fulfills open, liberal arts, and social science electives.							
*SOC120	MAL	14000	02:00-04:45PM	F	LYNN	3.0	STAFF
<i>*SOC120 MAL is reserved for Verizon Next Step program students.</i>							
SOC126 RACE, GENDER, AND CLASS							
<i>Pre: Communications proficiency</i>							
Emphasizes both the psychological and sociological conditions of minority groups. Discussions will include but not be limited to the dynamics of assimilation, stratification, and social mobility, as well as the impact of minority status on personalities. The nature and causes of prejudice and discrimination also will be explored.							
SOC126	AD	10415	06:30-09:15PM	T	DANVERS	3.0	M COTE
SOC126	AL	12195	06:30-09:15PM	R	LYNN	3.0	M COTE
SOC126	LB	10978	09:30-10:20AM	M W F	LYNN	3.0	STAFF
SOC126	LM	10416	12:30-01:45PM	T R	LYNN	3.0	STAFF
SOC126	LN	16664	02:00-03:15PM	T R	LYNN	3.0	E CROWLEY
*SOC126	M	11045	12:30-01:45PM	T R	DANVERS	3.0	R ADELMAN
<i>*This is a Service-Learning course.</i>							
SOC126	P	16670	03:30-06:15PM	R	DANVERS	3.0	STAFF
SPE: SPEECH							
SPE102 SPEECH							
Focuses on the nature and effects of verbal communication. Students will become familiar with the communication process, including some of the following: principles of organization, purpose, language structure, effective delivery, and audience analysis. Students individually will use these elements in informative and persuasive speaking in the traditional speaker-audience relationship. Fulfills open, liberal arts, and humanities electives.							
SPE102	AD	10576	07:00-09:45PM	W	DANVERS	3.0	STAFF
SPE102	AL	10575	06:30-09:15PM	T	LYNN	3.0	STAFF
SPE102	BD	13063	09:30-12:15PM	S	DANVERS	3.0	STAFF
SPE102	BL	12274	06:30-09:15PM	F	LYNN	3.0	STAFF
SPE102	CD	16341	06:30-09:15PM	R	DANVERS	3.0	STAFF

SPEECH

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
SPE102	CL	16635	04:00-06:45PM	M	LYNN	3.0	STAFF
SPE102	DD	16636	04:00-05:15PM	M W	DANVERS	3.0	STAFF
SPE102	A	17283	08:30-09:20AM	M W F	DANVERS	3.0	Y HAYES
SPE102	B1	11174	09:30-10:20AM	M W F	DANVERS	3.0	J ROBINSON
SPE102	B2	10924	09:30-10:20AM	M W F	DANVERS	3.0	Y HAYES
SPE102	C	16403	10:30-11:20AM	M W F	DANVERS	3.0	STAFF
SPE102	D	13488	11:30-12:20PM	M W F	DANVERS	3.0	Y HAYES
SPE102	E	13731	12:30-01:20PM	M W F	DANVERS	3.0	Y HAYES
SPE102	J1	10565	08:00-09:15AM	T R	DANVERS	3.0	J ROBINSON
SPE102	J2	13541	08:00-09:15AM	T R	DANVERS	3.0	STAFF
SPE102	K	16169	09:30-10:45AM	T R	DANVERS	3.0	STAFF
SPE102	LA1	10569	08:30-09:20AM	M W F	LYNN	3.0	A SEARS
SPE102	LA2	10845	08:30-09:20AM	M W F	LYNN	3.0	STAFF
SPE102	LC	17450	10:30-11:20AM	M W F	LYNN	3.0	A SEARS
SPE102	LJ1	10571	08:00-09:15AM	T R	LYNN	3.0	STAFF
SPE102	LJ2	10570	08:00-09:15AM	T R	LYNN	3.0	A SEARS
SPE102	LK	16319	09:30-10:45AM	T R	LYNN	3.0	A SEARS
SPE102	LR1	16668	12:30-03:20PM	F	LYNN	3.0	STAFF
SPE102	M	10846	12:30-01:45PM	T R	DANVERS	3.0	STAFF
*SPE102	OL	17069			ONLINE	3.0	A SEARS

*SPE102 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus. This course requires you to record and upload speeches. You will need access to a Webcam, digital video camera, or other device capable of recording digital video files. A broadband Internet connection is also recommended.

SPE106 INTERPERSONAL COMMUNICATION

Pre: Communications proficiency

This course explores how people communicate in relationship with one another. The class will engage concepts such as culture, gender, and identity from a Communication Studies perspective. Fulfills humanities, liberal arts, social science, and open electives.

SPE106	INT	17378			TBA	3.0	STAFF
SPE106	J	15594	08:00-09:15AM	T R	DANVERS	3.0	Y HAYES

SPN: SPANISH

SPN100 CONVERSATIONAL SPANISH

A basic course in conversational Spanish designed to enable students to begin to communicate effectively. Classroom activities are varied with practical vocabulary and language structure related to life/work situations. Language competency is promoted through speaking, reading, writing, interviewing for oral practice, listening comprehension using multimedia materials, and occasional online discussion. Fulfills open, liberal arts, humanities, and modern language electives.

SPN100	AL	13083	12:30-03:15PM	S	LYNN	3.0	STAFF
SPN100	P	11107	03:30-06:15PM	T	DANVERS	3.0	STAFF

SPN101 ELEMENTARY SPANISH 1

Elementary Spanish 1 focuses on the acquisition of basic listening, speaking, reading, and writing skills through dialogues, role-playing situations and open-ended speech. It prepares students to use basic grammatical structures correctly in a natural way for communication and enhances appreciation of cultural differences. Classroom activities are reinforced by assigned work using multimedia materials. Fulfills open, liberal arts, humanities, and modern language electives.

SPN101	J	13041	08:00-09:15AM	T R	DANVERS	3.0	STAFF
SPN101	LJ	15593	08:00-09:15AM	T R	LYNN	3.0	STAFF
SPN101	LK	13732	09:30-10:45AM	T R	LYNN	3.0	STAFF
SPN101	LM	16680	12:30-01:45PM	T R	LYNN	3.0	STAFF
*SPN101	OL	14397			ONLINE	3.0	I FERNANDEZ

*SPN101 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus. Please take the e-learning survey found at <http://www.northshore.edu/elearning/quiz.html> to find out if you are a good candidate for an online course. In this course, minimal vocabulary in Spanish or any experience in a second language will help you succeed but is not required.

SPN101 ELEMENTARY SPANISH 1 FOR THE HEALTH PROFESSIONAL

Elementary Spanish 1 for the Health Professional focuses on the acquisition of essential medical vocabulary used by health professionals at work settings such as hospitals, emergency rooms, doctors' offices and clinics when dealing with Spanish-speaking patients and personnel in the United States. It also discusses Hispanic customs and traditions relevant to health care. It prepares students to use basic grammatical structures correctly emphasizing basic listening, speaking, reading, and writing skills. Classroom activities are reinforced by assigned work using multimedia materials. Fulfills open, liberal arts, humanities, and modern language electives.

*SPN101A	OL	15595			ONLINE	3.0	I FERNANDEZ
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*SPN101A OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.

SPN102 ELEMENTARY SPANISH 2

Pre: SPN101

Elementary Spanish 2 is a continuation of SPN101. This course continues its emphasis on listening, speaking, reading, and writing skills through dialogues, role-playing situations and open-ended speech. Introduces new grammatical structures, increases the use of the language and enhances appreciation of cultural differences. Classroom activities are reinforced by assigned work using multimedia materials. Fulfills open, liberal arts, humanities, and modern language electives.

SPN102	AD	16847	06:30-09:15PM	R	DANVERS	3.0	STAFF
SPN102	AL	10297	06:30-09:15PM	R	LYNN	3.0	STAFF
*SPN102	CT1	10298	08:30-09:20AM	M W	DANVERS	3.0	I FERNANDEZ
*SPN102 CT1 is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom meetings.							
*SPN102	CT2	13733	11:30-12:20PM	M W	DANVERS	3.0	I FERNANDEZ
*SPN102 CT2 is a hybrid course which is partially online and partially in the classroom with a reduced number of classroom meetings.							
SPN102	LL	13043	11:00-12:15PM	T R	LYNN	3.0	STAFF
SPN102	OL	17557			ONLINE	3.0	STAFF

SPANISH

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
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SPN202 INTERMEDIATE SPANISH 2

Pre: SPN201

Intermediate Spanish 2 is the continuation of SPN201. It reviews and presents new grammar topics and develops an active vocabulary. Students attain an intermediate communicative competence and continue their awareness of the range of cultures in the Spanish-speaking countries. The course combines class discussions, oral presentations, compositions, analysis of literary pieces; articles and films are a part of this course. This course is conducted primarily in the target language. Fulfills open, liberal arts, humanities, and modern language electives.

*SPN202 OL 16574

ONLINE 3.0

I FERNANDEZ

*SPN202 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus.**SRG: SURGICAL TECHNOLOGY**

SRG courses are open only to students currently in the program. For information regarding admissions to the program, please visit our website.

SSC: STUDENT SUPPORT COURSE**SSC091 LEARNING SUPPORT FOR MATHEMATICS**

Pre: MAT011 or Placement Exam Co: Enrollment in a Mathematics course

This course is designed as academic support for students enrolled in a mathematics course. Emphasis will be on the process of learning mathematics and the study skills specific to mathematics. Topics will include instruction on learning strategies, reading and writing mathematics, anxiety reduction, and test-taking techniques. This course fulfills no elective requirements.

SSC091 LR 15041 09:30-10:20AM

F

LYNN

1.0

STAFF

SSC101 COLLEGE SUCCESS SEMINAR

Pre: COM011/013 or placement by assessment test

An exploration of the factors which determine academic, career, and personal success. Emphasis is on building the skills and awareness necessary to promote academic persistence and achievement.

SSC101 AD 13015 07:00-09:45PM

T

DANVERS

3.0

STAFF

SSC101 AL 10435 04:00-06:45PM

T

LYNN

3.0

STAFF

*SSC101 PRO 10984 07:46-09:01PM

T R

LYNN

3.0

STAFF

*SSC101 PRO is reserved for students in the Project Enable program.

*SSC101 TS 12664 10:00-12:45PM

S

LYNN

3.0

STAFF

*SSC101 TS is restricted to students in the Trio Talent Search program.

SSC101 D 10961 11:30-12:20PM

M W F

DANVERS

3.0

STAFF

*SSC101 J 16713 08:00-09:15AM

T R

DANVERS

3.0

STAFF

*This is a Service-Learning and Writing-Supported course.

SSC101 L 13016 11:00-12:15PM

T R

DANVERS

3.0

STAFF

SSC101 LC 10822 10:30-11:20AM

M W F

LYNN

3.0

STAFF

SSC101 LF 12844 01:30-02:20PM

M W F

LYNN

3.0

STAFF

SSC101 LK 10960 09:30-10:45AM

T R

LYNN

3.0

STAFF

SSC101 LL 10438 11:00-12:15PM

T R

LYNN

3.0

STAFF

SWG: SOCIAL WELFARE/GERONTOLOGY**SWG104 NUTRITIONAL AND HEALTH ASPECTS OF AGING**

The student will gain information and skills needed to assess and improve nutritional and health patterns of the older adult. Emphasis will be placed on preventative health maintenance. Additionally, this course will explore attitudes and thoughts which have led to both problems in these areas and solutions to health and nutritional deficits among the elderly.

SWG104 R 10367 08:00-09:15AM

M W

DANVERS

3.0

STAFF

SWG203 ADVOCACY FOR ELDERERS

Pre: PSY112

Designed to provide basic knowledge and techniques to use advocacy as a democratic process for change. Included in the course will be techniques for taking action with others to solve common problems. The course will provide an understanding of the legislative process in Massachusetts and practical ways of influencing representative government. Problems of Medicare, Medicaid, wills, fraud, and Social Security also will be presented.

*SWG203 OL 13082

ONLINE 3.0

STAFF

*SWG203 OL is a Distance-Learning course with an orientation. For details log on to: www.northshore.edu/elearning/campus. SWG203 OL is also a Service-Learning course.**TOU: TOURISM****TOU210 TOUR MANAGEMENT**

Pre: Mathematics proficiency; TOU104

Covers customer-service training and how it relates to today's traveler. Management of incoming and outgoing groups and visitors will be studied. Focuses primarily on the role of the tour manager as it relates to costing a tour, planning personalized itineraries for groups of individuals, processing industry forms (i.e., RFPs, check requests, travel vouchers, evaluation forms, manifests), and implementing quality control measures for handling customer inquiries and complaints.

TOU210 LB 15650 09:30-10:20AM

M W F

LYNN

3.0

B KELLY

TRV: TRAVEL**TRV103 AUTOMATED SYSTEMS FOR THE TRAVEL INDUSTRY**

Pre: Communications proficiency Co: TOU104

Introduces the principles of airline and hotel automation systems. Topics include the five primary components of a passenger name record, determining flight availability, selling airline seats, plus interfacing software programs such as point-of-sale systems and property management systems used in the hotel industry. This course will also examine the Internet as an essential reference tool.

TRV103 LC 16059 10:30-11:20AM

M W F

LYNN

3.0

B KELLY

VETERINARY TECHNOLOGY

Code	Sec	CRN	Time	Day	Campus	Credits	Instructor
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VET: VETERINARY TECHNOLOGY

VET courses are open only to students currently in the program. For information regarding admissions to the program, please visit our website.