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NUpath

Northeastern’s academic core, known as NUpath, is built around essential, broad-based knowledge and skills—such as understanding societies and analyzing data—integrated with specific content areas and disciplines. It offers students the flexibility to integrate core learning into their individual educational journeys. NUpath is Northeastern University’s set of institution-wide general education requirements for all students in all majors. You may find a list of these requirements with further details on the NU Core Curriculum webpage: <https://www.northeastern.edu/core/requirements/>.

Throughout this guide you will find the following abbreviations for NUpath categories. Below is a list of these NUpath categories and their accompanying codes.

NUpath Abbreviation	NUpath Attribute
ND	Engaging with the Natural and Designed World
EI	Exploring Creative Expression and Innovation
IC	Interpreting Culture
FQ	Conducting Formal and Quantitative Reasoning
SI	Understanding Societies and Institutions
AD	Analyzing and Using Data
DD	Engaging Difference and Diversity
ER	Employing Ethical Reasoning
WF	Writing in the First Year
WI	Writing Intensive in the Major

N.U.in Boston, Northeastern University

Anatomy & Physiology 1 with Lab

Introduces students to integrated human anatomy and physiology. Focuses on structure and function of cells and tissues. Presents the anatomy and physiology of skin, bones, muscles, blood, and the nervous system.

NU Course: BIOL 2217/2218. NUpath: ND, AD.

Boston Theatre Experience

Offers a comprehensive experiential survey of professional theatre today. Students attend Boston-area productions that reflect a diverse range of styles and aesthetics, with special emphasis on the creation of new plays. Through preparatory readings and lectures, combined with postplay critical assessments (oral and in writing) and interactions with theatre artists (playwrights, actors, directors), offers students an opportunity to examine and discover how to interpret the art of contemporary theatre in the United States, from fringe companies to Broadway, as audience members and aspiring artists. Requires attendance at plays outside of class time.

NU Course: THTR 2335. NUpath: IC.

Buildings and Cities, A Global History

Introduces students to architecture, as understood through buildings, cities, and landscapes from antiquity to the present. Studies important monuments in the global history of architecture, as well as tools for analyzing the built environment. Considers buildings in relation to their political, social, economic, and cultural context, and as expressions of diversity in human societies and cultural perspectives. Topics include the language of architecture, architectural drawings, the classical orders, the problem of ornament, construction techniques, materials, site, and the role of the patron. Develops students' eye for composition in two and three dimensions, aesthetic discrimination of detail, ability to see buildings as part of a larger social and cultural fabric, and critical judgment in speaking and writing.

NU Course: ARCH 1310. NUpath: IC, DD.

Calculus for Business and Economics

Provides an overview of differential calculus including derivatives of power, exponential, logarithmic, logistic functions, and functions built from these. Derivatives are used to model rates of change, to estimate change, to optimize functions, and in marginal analysis. The integral calculus is applied to accumulation functions and future value. Emphasis is on realistic business and economics problems, the development of mathematical models from raw business data, and the translation of mathematical results into verbal expression appropriate for the business setting. Also features a semester-long marketing project in which students gather raw data, model it, and use calculus to make business decisions; each student is responsible for a ten-minute presentation. (Graphing calculator required, see instructor for make and model.)

NU Course: MATH 1231. NUpath: FQ.

Calculus 1 for Science and Engineering

Covers definition, calculation, and major uses of the derivative, as well as an introduction to integration. Topics include limits; the derivative as a limit; rules for differentiation; and formulas for the derivatives of algebraic, trigonometric, and exponential/logarithmic functions. Also discusses applications of derivatives to motion, density, optimization, linear approximations, and related rates. Topics on integration include the definition of the integral as a limit of sums, antidifferentiation, the fundamental theorem of calculus, and integration by substitution.

NU Course: MATH 1341. NUpath: FQ.

Calculus 2 for Science and Engineering

Covers further techniques and applications of integration, infinite series, and introduction to vectors. Topics include integration by parts; numerical integration; improper integrals; separable differential equations; and areas, volumes, and work as integrals. Also discusses convergence of sequences and series of numbers, power series representations and approximations, 3D coordinates, parameterizations, vectors and dot products, tangent and normal vectors, velocity, and acceleration in space. Requires prior completion of MATH 1341

NU Course: MATH 1342. NUpath: FQ.

Calculus 3 for Science and Engineering

Extends the techniques of calculus to functions of several variables; introduces vector fields and vector calculus in two and three dimensions. Topics include lines and planes, 3D graphing, partial derivatives, the gradient, tangent planes and local linearization, optimization, multiple integrals, line and surface integrals, the divergence theorem, and theorems of Green and Stokes with applications to science and engineering and several computer lab projects. Requires prior completion of MATH 1342.

NU Course: MATH 2321. NUpath: FQ.

N.U.in Boston, Northeastern University – continued**Color and Composition**

Offers an opportunity to discover and research basic principles, language, and concepts inherent in two-dimensional visual systems. Offers students an opportunity to learn to think critically, analyze, and apply basic principles to design and art projects. In a studio workshop setting, three primary phases explore art, design, and photography.

NU Course: ARTF 1122. NUpath: EI.

Comparative Politics + Recitation

Presents a comparative study of political organization and behavior in a range of countries beyond the United States. Topics includes political culture, political economy, governing institutions, leadership, and political participation.

NU Course: POLS 1155/1156. Does not carry NUpath.

Cornerstone of Engineering 1

Introduces students to the engineering design process and algorithmic thinking using a combination of lectures and hands-on projects and labs while encouraging critical thinking. Offers students an opportunity to develop creative problem-solving skills used in engineering design, to structure software, and to cultivate effective written and oral communication skills. Topics include the use of design and graphics communication software, spreadsheets, a high-level programming language, programmable microcontrollers as well as various electronic components, and 3-D printing. Requires students to develop an original design solution to a technical problem as a final term project. Requires students to have a laptop computer that meets the specifications of the College of Engineering.

NU Course: GE 1501. Does not carry NUpath.

Current Issues in Cities and Suburbs

Introduces students to pressing urban issues: urban sprawl, poverty, education, transportation, economic development, and housing, through an intensive analysis of the Boston metropolitan area. The course is cotaught by university faculty and practitioners in government, community, and nonprofit organizations throughout the metropolitan area. Offers students the opportunity to analyze Boston data, go on outings to see development in progress, talk with urban practitioners about what they do, and conduct research on an urban issue of their choice.

NU Course: POLS/SOCL 2358. NUpath: SI, DD.

Design Process, Context, and Systems

Explores common design practices, principles, and vocabularies, introducing the design process as a method of inquiry and problem solving through studio projects. Emphasizes the importance of an awareness of audience and context in the creation of meaningful communications and experiences. Explores the practice of design as an iterative process, offering students an opportunity to obtain an understanding of the value of systems thinking and the importance of feedback and exchange as a means for assessing the quality of designs effectiveness in helping users achieve their goals.

NU Course: ARTG 1250. NUpath: EI.

Developmental Psychology

Examines change throughout the life span in social relationships, emotional functioning, language, cognition, and other psychological domains, with emphasis on infancy through adolescence. Introduces major theories of development. Stresses the interaction of social and cognitive factors in development, and the interaction of the developing person with the environment. Also explores individual and cross-cultural differences in patterns of development, and research issues in developmental psychology.

NU Course: PSYC 3404. Does not carry NUpath.

Discrete Structures Lecture

Introduces the mathematical structures and methods that form the foundation of computer science. Studies structures such as sets, tuples, sequences, lists, trees, and graphs. Discusses functions, relations, ordering, and equivalence relations. Examines inductive and recursive definitions of structures and functions. Discusses principles of proof such as truth tables, inductive proof, and basic logic. Also covers the counting techniques and arguments needed to estimate the size of sets, the growth of functions, and the space-time complexity of algorithms.

NU Course: CS 1800. NUpath: FQ.

First-Year Writing

Designed for students to study and practice writing in a workshop setting. Students read a range of texts in order to describe and evaluate the choices writers make and apply that knowledge to their own writing and explore how writing functions in a range of academic, professional, and public contexts. Offers students an opportunity to learn how to conduct research using primary and secondary sources; how to write for various purposes and audiences in multiple genres and media; and how to give and receive feedback, to revise their work, and to reflect on their growth as writers.

NU Course: ENGW 1111. NUpath: WF.

N.U.in Boston, Northeastern University – continued

Foundations of Psychology

Surveys the fundamental principles, concepts, and issues in the major areas of basic and applied psychological science. Approaches the study of psychology as a method of inquiry as well as a body of knowledge. Introduces students to research methods and to psychological research on the biological bases of behavior, learning, sensation and perception, cognition and language, development, emotion, social psychology, personality, and psychological disorders.

NU Course: PSYC 1101. NUpath: ND, SI.

Fundamentals of Computer Science Lecture

Introduces the fundamental ideas of computing and the principles of programming. Discusses a systematic approach to word problems, including analytic reading, synthesis, goal setting, planning, plan execution, and testing. Presents several models of computing, starting from nothing more than expression evaluation in the spirit of high school algebra. No prior programming experience is assumed; therefore, suitable for freshman students, majors and nonmajors alike who wish to explore the intellectual ideas in the discipline.

NU Course: CS 2500. NUpath: ND, FQ.

General Biology 1 with Lab

Explores basic principles of biology with a focus on those features shared by all living organisms and seen through the lens of evolutionary theory. Through lectures, readings and discussion, offers students an opportunity to understand how the scientific method has been and is used to address biological questions. Central topics include recent advances in cell anatomy and physiology, including the interplay between organelles, membrane transport, and cell-signaling; energy transfer through cells and through the biosphere; cellular reproduction and cancer; heredity and human genetic disorders; and protein synthesis and biotechnology. Explores the societal implications of such topics as biopharmaceuticals, ocean acidification, climate change, human diseases, epigenetics, cancer, and cloning.

NU Course: BIOL 1111/1112. NUpath: ND, AD.

General Chemistry for Engineers with Recitation

Introduction to the key concepts, issues, and modes of analysis in the interdisciplinary fields of feminist and social justice studies. Emphasis on the intersections of gender, race, class, sex, sexuality, and nation in systems of power from historical and contemporary perspectives and the means for collectively transforming them.

NU Course: CHEM 1151/1153. NUpath: ND.

General Chemistry for Science Majors with Lab

Introduces the principles of chemistry, focusing on the particulate nature of matter and its interactions and reactions that form the basis for the underlying molecular dynamics of living systems. Presents basic concepts of chemical bonding and intermolecular interactions for molecules and molecules' behavior in aqueous solutions with examples from biologically relevant molecules. Introduces kinetics and chemical thermodynamics with examples from biological systems. Offers students an opportunity to obtain a framework for understanding the chemical basis for different methods for separating and purifying biological compounds.

NU Course: CHEM 1161/1162/1163. NUpath: ND.

Globalization and International Affairs

Offers an interdisciplinary approach to analyzing global/international affairs. Examines the politics, economics, culture, and history of current international issues through lectures, guest lectures, film, case studies, and readings across the disciplines.

NU Course: INTL 1101. NUpath: SI.

History of Boston

Explores the history of Boston from colonial times to the present, with attention to the topographical growth and the ethnic composition of the city. Includes visits to historical sites, museums, and archives in the area.

NU Course: HIST 1232. NUpath: IC..

International Business and Global Social Responsibility

Introduces the student to forces and issues confronted in our era of rapid globalization. Managers must understand forces from interconnected social, political, and economic national environments that affect their company's operations. At the same time they need to draw on their ethical foundations to address and act on social responsibility imperatives across national borders.

NU Course: INTB 1203. NU path: IC, ER.

N.U.in Boston, Northeastern University – continued

Introduction to Communication Studies

Surveys the field of communication studies. Covers major theories and methodological approaches in communication studies and situates communication within larger social, political, and economic institutions. Exposes students to ways of ethical reasoning across communication contexts, including organizational communication, social media, intercultural communication, mass media, and interpersonal communication.

NU Course: COMM 1101. NUpath: SI, ER.

Introduction to Logic

Covers the fundamentals of (formal) deductive and inductive logic. Begins with a thorough treatment of Boolean (i.e., truth-functional or propositional) logic, which provides the foundation for both mathematical and statistical reasoning. Discusses various applications of Boolean logic, including the reconstruction and evaluation of (natural language) deductive arguments. Covers inductive-logical reasoning, such as the fundamentals of the probability calculus and its applications to inductive (ampliative) inference. Offers students an opportunity to understand both deductive (e.g., mathematical) and inductive (e.g., statistical) reasoning.

NU Course: PHIL 1115. NUpath: FQ, AD.

International Relations with Recitation

Introduces a broad study of international relations, encompassing both theoretical perspectives and empirical knowledge. Reviews the role of states as well as international and nongovernmental organizations in dealing with security and war, terrorism, human rights, trade, globalization, and environmental protection, among other important contemporary issues.

NU Course: POLS 1160/1116. NUpath: SI.

Introduction to Sociology

Explores diverse social phenomena, from how people try to look their best in face-to-face interactions; to how race, gender, and class shape identities and social conditions; to how industrial capitalism came to dominate the world. Offers students an opportunity to gain a grasp of key sociological theories and empirical research on topics such as social order, social conflict, and social change, as well as learn to identify social forces that shape human behavior, explain how these forces affect individuals and social groups, and make valid predictions about how they may shape future behavior or events.

NU Course: SOCL 1101. NUpath: SI, DD.

Introduction to Theatre

Reveals the dynamic world of theatre by exploring the artistry, ideas, and techniques of actors, designers, directors, and playwrights. Goes behind the scenes in the study of theory and literature with both in-depth discussions and in-class performances. Includes a survey of significant movements in theatre history and analysis of diverse plays from contemporary drama. No theatre experience required.

NU Course: THTR 1101. NUpath: EI, IC.

Musical Communities of Boston

Combines ethnomusicology and experiential learning by exploring the diverse communities of Boston and their music. Since 17th-century encounters between the Wampanoag Nation and English Puritans, Boston has been characterized by intercultural contact and exchange. Discusses the history and legacies of such encounters, as well as present-day issues of diversity and belonging in Boston. Focuses on how communities reinforce their own cultural bonds through music and discusses alliances formed through shared experiences of diasporic, exilic, refugee, immigrant, and minority status. Through interdisciplinary, ethnographic analysis and practice, offers students an opportunity to explore how these inherently intersectional social dynamics, which engage issues of race, gender, class, ethnicity, etc., play out through collective and individual musical practices.

NU Course: MUSC 2330. NUpath: DD, SI.

Music in Everyday Life

Dedicated to exploring, expanding, and exploding traditional meanings of what music is; of what it means to be a composer, performer, and audience member; and of what it means to listen. The overarching goal is to provide students with the tools and opportunities necessary for determining for themselves what place music holds in everyday life.

NU Course: MUSC 1001. NUpath: EI, IC.

Media, Culture, and Society

Introduces the study of media, including print, radio, film, television, and digital/computer products. Explores the ideological, industrial, political, and social contexts that impact everyday engagements with media. To accomplish this, students examine how media products are developed, how technological changes impact the production and consumption of media, how political processes are influenced by media, how people interpret and interact with media content, and how media influence cultural practices and daily life.

NU Course: MSCR 1220. NUpath: IC, SI.

N.U.in Boston, Northeastern University – continued

Origins of Today: Historical Roots of Contemporary Issues

Focuses on the historical roots of four pressing contemporary issues with global implications. Our world has grown increasingly complex and interconnected, and the planet's diverse peoples are facing common problems that have tremendous impact on the immediate future. They are (1) globalization, from its origins in the sixteenth century to the present; (2) the potential for global pandemics to alter the course of history, from bubonic plague in the fifth century to H1N1; (3) racial inequality, from religious interpretations in the early modern period to science in the modern era; and (4) gender inequality, from the agricultural revolution forward. For each issue, studies cases and locations spread across the world, examines the links between past and present, and attempts to identify ways forward.

NU Course: HIST 1215. NUpath: IC, DD.

Peoples and Cultures

Surveys basic concepts in cultural anthropology by looking at a range of societies and the issues they face in a globalizing world. Examines the manner in which cultures adapt to, reject, or modify all of the changes they face. These changes impact everything from traditional family structure, to religion, gender, all the way to patterns of joking and concepts of beauty the world over.

NU Course: ANTH 1101. NUpath: IC.

Physics 1 with Lab

Covers calculus-based physics. Offers the first semester of a two-semester integrated lecture and laboratory sequence intended primarily for science students. Covers Newtonian mechanics and fluids. Emphasizes the underlying concepts and principles. Takes applications from a wide variety of fields, such as life sciences and medicine, astro- and planetary physics, and so on. Includes topics such as forces, torque and static equilibrium, one-dimensional and three-dimensional motion, Newton's laws, dynamics friction, drag, work, energy and power, momentum and collisions, rotational dynamics, oscillations, pressure, fluids, and gravity.

NU Course: PHYS 1161/1162. NUpath: ND, AD.

Public Speaking

Develops skills in public communication. Topics include choosing and researching a topic, organizing and delivering a speech, handling speech anxiety, listening critically, and adapting language to an audience. Offers the opportunity for students to present a series of speeches and receive advice and criticism from an audience.

NU Course: COMM 1112. NUpath: EI.

Principles of Microeconomics

Focuses on development of basic theory of demand, supply, and market price. Explores applications to selected microeconomic problems, such as basic monopoly and competition, and other issues that relate to the role of the pricing system in resource allocation and income distribution.

NU Course: ECON 1116. NUpath: SI, AD.

Principles of Macroeconomics

Introduces macroeconomic analysis. Topics include the flow of national income, economics growth and fluctuation, the role of money and banking, and monetary and fiscal policies. Emphasizes the development of conceptual tools to analyze the economic problems facing modern society.

NU Course: ECON 1115. NUpath: SI, AD.

Understanding Today's News

Examines the media institutions that shape the news and how the challenges of economics, politics, diversity, and globalization change the function of the website, newspaper, news magazine, and news broadcasts. Examines stories and news decisions from different perspectives to evaluate national, political, local, foreign, sports, and science news in the U.S. media. Topics include responsibilities of the press and the changing ways news is gathered, processed, and disseminated. Explores how other societies in different parts of the world view the news; freedom of the press; and the role of reporters, producers, and editors.

NU Course: JRNL 1150. NUpath: SI, DD.

Writing Boston

Explores how writing shapes the life of, and life in, the city. Considers how Boston is constructed in a range of discourses and disciplines. Offers students an opportunity to research and write about the city and participate in a community-based writing project.

NU Course: ENGL 3375. NUpath: EI, IC, WI, EX.

N.U.in England, New College of the Humanities (NCH)

Academic Writing

The goal of this course is to help students learn how to participate in an academic community, in part by helping students to become aware of the ways information and communication function within all sorts of different cultural groups. Students will learn how to assess a variety of communication situations, and how to make choices that will help them participate effectively in those situations. This course aims to help students negotiate writing goals and audience expectations regarding conventions of genre, medium, and situation; formulate and articulate a stance through writing; revise writing using responses from others, including peers and teachers; effectively use and appropriately cite sources in your writing; use multiple forms of evidence to support your claims, ideas, and arguments; practice critical reading strategies; provide revision-based response to your peers; and self-assess as writers.

NU Course Equivalent: ENGW 1111, First Year Writing. NUpath: WF.

Architecture of London: Building a Global Metropolis

This course traces the history of London from the mid-17th century to the present. The course explores the urban growth, buildings, critical debates and stylistic developments that have shaped London's contemporary built environment. Students will become familiar with the architects, projects, buildings, styles and historiographies that have shaped Western architecture. These include the birth and diffusion of Palladianism and Neoclassicism during the 17th and 18th centuries; mass infrastructures and the reactions to industrialization in the 19th century, and Brutalism and radical architectural experimentalism in the post-war era. London is the ideal place to study the chronology of architectural history, and site visits will be used to complement the lectures, introducing students to the methodologies for its study and the significance of buildings and architecture in our understanding of the built environment.

NU Course Equivalent: ARCH 2370, Topics in Architectural History. NU path: IC, WI.

Britain and the World: Interaction and Empire

Welcome to 'Britain and the World: Interaction and Empire'. This course introduces students to the history of Britain and its interaction with the world. The course follows British history from the Roman Empire to today. The aim is to examine the Britain's relationships with other countries and cultures, exploring social, economic, and cultural developments, as well as political and diplomatic ones. As well as understanding these developments discretely, students will also be encouraged to see how they affect one another.

NU Course Equivalent: HIST 2376, Britain and the British Empire, NUpath: SI, DD.

British Drama and the London Stage

In this course students will study a range of drama from the British Isles across six centuries, with a particular emphasis on the evolving nature of theatre and performance in London. Attention is given to major playwrights, movements, styles and themes and their historical, critical and performance contexts. Throughout the course we will be considering the relationship between page and stage: between the dramatic text as it appears in written form, and its life in performance. After an overview we will proceed chronologically, from Elizabethan and Jacobean Shakespeare through to the eclectic British theatre of the twenty-first century. Lectures are highly interactive and are structured around significant playwrights, genres, movements and topics. We will use the wealth of theatres and productions happening on our doorstep in London as a resource.

NU Course Equivalent: THTR 1990, Theatre Elective, NUpath: EI, IC.

Calculus for Business

Calculus for Business is a calculus course intended for those studying business, economics, or other related business majors. The following topics are presented with applications in the business world: functions, graphs, limits, differentiation, integration, techniques and applications of integration, partial derivatives, optimization, and the calculus of several variables. Each textbook section has an accompanying homework set to help the student better understand the material.

NU Course Equivalent: MATH 1231, Calculus for Business and Economics. NUpath: FQ.

Calculus I for Science and Engineering

Covers definition, calculation, and major uses of the derivative, as well as an introduction to integration. Topics include limits; the derivative as a limit; rules for differentiation; and formulas for the derivatives of algebraic, trigonometric, and exponential/logarithmic functions. Also discusses applications of derivatives to motion, density, optimization, linear approximations, and related rates. Topics on integration include the definition of the integral as a limit of sums, antidifferentiation, the fundamental theorem of calculus, and integration by substitution.

NU Course Equivalent: MATH 1341: Calculus 1 for Science and Engineering. NUpath: FQ.

N.U.in England, New College of the Humanities (NCH) – continued

Calculus II for Science and Engineering

Covers further techniques and applications of integration, infinite series, and introduction to vectors. Topics include integration by parts; numerical integration; improper integrals; separable differential equations; and areas, volumes, and work as integrals. Also discusses convergence of sequences and series of numbers, power series representations and approximations, 3D coordinates, parameterizations, vectors and dot products, tangent and normal vectors, velocity, and acceleration in space. Requires prior completion of Calculus I.

NU Course Equivalent: MATH 1342: Calculus 2 for Science and Engineering. NUpath: FQ.

Cultures of London

This course is about the relationship between place, people, and culture in the widest sense of the term. In this course you will encounter and study a wide range of cultural manifestations in and of London: examining how different people and different art forms have helped form an idea of the city across different time periods; and how the city has in turn influenced the people who live here and the directions art forms have taken. Wherever possible we will be studying London and its cultures first-hand. The course focuses on a wide variety of art that has been produced in, or which reflects upon, London, including in the visual arts and architecture, and with a strong emphasis on literary representations. We will study a range of poetry, prose and drama spanning more than 450 years, tracing continuities and differences in relation to historical and sociological change. Above all, the aim is for students to enhance their semester abroad by reflecting deeply on their own experiences of London as visitors from overseas, in relation to the similar experiences of overseas visitors and immigrants to London over the past five centuries.

NU Course Equivalent: INSH 1600, Cultures of London – Abroad. NUpath: IC.

Deconstructing the Canon: Social Histories of European Art

This course forms a critical introduction to the study of art history, taught through the lens of London's significant and extensive museums and galleries. Students will develop an awareness of how European art history emerged as a discipline defined by stylistic categorization, historical periodization and ideas of 'greatness'. They will be exposed to works that disrupt the dominant art historical narratives surrounding European art, alongside the masterpieces that have been used to build and sustain its canon. The notion that certain works can be considered 'representative' will be considered critically and we will explore how objects can change in appearance, meaning and function over time. Capitalizing on their time in London, site visits will be used for students to consider and critique the role of institutions in establishing hierarchies of visual and material culture. Students will explore the part played by museums and galleries in creating and sustaining cultural narratives upon which local, national and global identities are so often based. Each week, students will have lectures and study visits. The course is designed to be highly interactive, offering an opportunity for those who are studying history of art for the first time, or at a more advanced level, to actively participate in each lecture and study visit.

NU Course Equivalent: ARTH 1110, Global Art and Design History: Ancient to Medieval. NUpath: IC, SI.

Discrete Structures

This course introduces the mathematical structures and methods that form the foundation of computer science. Studies structures such as sets, tuples, sequences, lists, trees, and graphs. Discusses functions, relations, ordering, and equivalence relations. Examines inductive and recursive definitions of structures and functions. Discusses principles of proof such as truth tables, inductive proof, and basic logic. Also covers the counting techniques and arguments needed to estimate the size of sets, the growth of functions, and the space-time complexity of algorithms.

NU Course Equivalent: CS 1800/1802, Discrete Structures with Seminar. NUpath: FQ.

English Now and Then

Introduces the linguistic study of the English language from current and historical perspectives. Topics include the Latin and Greek etymology of English words; the linguistics of modern English dialects; English as a global language; and the origins of English as a Germanic language, closely related to German and Dutch.

NU Course Equivalent: LING 1449: English Now and Then, NUpath: IC.

N.U.in England, New College of the Humanities (NCH) – continued**Foundations of Psychology**

This course provides an introductory insight into psychology. It surveys fundamental principles, concepts, and issues in the major areas of contemporary scientific psychology. The goal of this course is for you to gain an understanding of multiple major areas of psychology including biological, behavioral, cognitive, and social factors that influence and regulate learning and motivation; personality dynamics; psychopathology and its treatment; life-span development; sensory and perceptual processes; and communication and social behaviors. We will be able to see how psychology is applied to explain individual differences in behaviors, attitudes and feelings. You will learn how psychological experiments are conducted and what famous psychological studies have revealed about human behavior.

NU Course Equivalent: PSYC 1101, Foundations of Psychology, NUpath: ND, SI.

Fundamentals of Computer Science with Lab

This course is an introduction to computing and programming. Our major goal is to introduce you to the principles of systematic problem solving through programming and the basic rules of computation. By the end of this course, you will have a sense for the differences between a programmer and a well-trained software engineer. You will also have a sense of the complexities involved in developing solid software. You'll be able to apply what we learn to solve many non-computational problems in a systematic way. This course does not assume any prior programming experience. It is suitable for all students, majors and non-majors alike, who wish to explore the ideas behind the discipline of computer science. It does assume familiarity with (high-school-level) arithmetic and algebra, and it demands curiosity, self-discipline, and the capacity to work well with others.

NU Course Equivalent: CS 2500/2501, Fundamentals of Computer Science 1 with Lab, NUpath: ND, FQ.

General Biology I with Lab

This course explores basic principles of biology with a focus on those features shared by all living organisms and seen through the lens of evolutionary theory. Through lectures, readings and discussion, offers students an opportunity to understand how the scientific method has been and is used to address biological questions. Central topics include recent advances in cell anatomy and physiology, including the interplay between organelles, membrane transport, and cell-signaling; energy transfer through cells and through the biosphere; cellular reproduction and cancer; heredity and human genetic disorders; and protein synthesis and biotechnology. Explores the societal implications of such topics as biopharmaceuticals, ocean acidification, climate change, human diseases, epigenetics, cancer, and cloning. The Lab offers students an opportunity to collect quantitative data through hands-on experimentation as well as simulations. Data is analyzed statistically and presented in written form.

NU Course Equivalent: BIOL 1111/1112, General Biology 1 with Lab. NUpath: ND, AD.

General Chemistry I with Lab

This course introduces the principles of chemistry, focusing on the particulate nature of matter and its interactions and reactions that form the basis for the underlying molecular dynamics of living systems. The Lecture presents basic concepts of chemical bonding and intermolecular interactions for molecules and molecules' behavior in aqueous solutions with examples from biologically relevant molecules. Introduces kinetics and chemical thermodynamics with examples from biological systems. Offers students an opportunity to obtain a framework for understanding the chemical basis for different methods for separating and purifying biological compounds. The Lab introduces basic laboratory techniques and covers a range of topics including qualitative and quantitative analysis and the characteristics of chemical and physical processes. The Recitation covers various topics from the course and offers students an opportunity to work interactively with instructors and other students to learn and apply the knowledge acquired in lecture.

NU Course Equivalent: CHEM 1161/1162/1163: General Chemistry for Science Majors with Lab and Recitation. NUpath: ND.

International Business and Global Responsibility

The emphasis of this course is on the cultural, economic, strategic, and political aspects of national business environments and their impact on international business operations. Students are exposed to a variety of key international business concepts, ranging from strategic planning in the global arena, to managing behavior and interpersonal relations. Additional topics include free trade agreements, national trade policies, foreign market analysis, and international strategic management. Outside of the classroom we will visit some British Museum galleries, which is intended to support students' understanding of global cultural business environments around the world.

NU Course Equivalent: INTB 1203, International Business and Global Social Responsibility. NUpath: IC, ER.

N.U.in England, New College of the Humanities (NCH) – continued**International Relations: Theory and Practice**

The study of international relations (IR) helps us understand the circumstances under which conflict and cooperation occur in the world. If we can determine the causes of these events, we might learn to control them. This course is designed as an introduction to the only academic discipline that is specifically concerned with the study of "The International". It offers a broad introduction to international relations and assumes no prior knowledge. It is structured to provide a balance between empirical applications and theoretical underpinnings. The course covers several mainstream and critical theories that help to explain recurring patterns in international relations, including realism, liberalism, Marxism, constructivism, and feminism. Along with these theories, we will explore basic concepts used by IR scholars, such as the "state," the "nation," "anarchy," and "power." We will then study the different ways in which to analyse fundamental problems of international relations— conflict or cooperation—whether by studying the "big picture," the international system, or the inner workings of the state. Throughout the course you will be given the opportunity to apply complex and fast-changing scholarship to "real world" world problems, including state failure, climate change and security, international development, and humanitarian crises, which will enhance your critical thinking skills and help you to situate current international events in complex empirical and theoretical frameworks. *NU Course Equivalent: POLS 1160, International Relations. NUpath: SI.*

Introduction to Marketing

Shifting forces and major consumption trends impacting markets in the digital age compete to create customer value, engagement and loyal relationships. Through real-world and engaging methods, this course provides an introduction to global marketing and what are considered effective marketing strategies, encouraging learners to recognize how customer value may be created and captured. Learning outcomes will enable a broader appreciation of basic marketing concepts, case-study strategies and Twenty-First century practices.

NU Course Equivalent: MKTG 2201, Introduction to Marketing. Does not carry NUpath.

Physics I for Science and Engineering with Lab

This course covers calculus-based physics. The Lecture includes topics such as one-dimensional and three-dimensional motion, Newton's laws, dynamics friction, drag, work, energy and power, momentum and collisions, rotational dynamics, forces, torque and static equilibrium, pressure, fluids, and gravity. The Lab covers topics from the course through various experiments. The Seminar offers interactive problem solving and emphasizes organized approaches and use of mathematical techniques, including calculus, to solve a wide range of problems in mechanics. Topics include static equilibrium, applications of Newton's laws and conservation principles, rotational dynamics, and fluids.

NU Course Equivalent: PHYS 1151/1152/1153, Physics for Engineering 1 with Lab and Seminar. NUpath: ND, AD

Principles of Microeconomics

This course teaches the fundamentals of microeconomics, providing a solid foundation for economic analysis and thinking. This course begins with an introduction to supply and demand and the basic forces that determine an equilibrium in a market economy. It introduces a framework for learning about consumer behavior and analyzing consumer decisions. The course will explore consumers and their decision-making process as well as firms and their decisions about optimal production. In addition, the course covers the impact of different market structures on firms' behavior and further includes two guest lectures by economic scholars. By the end of the course, you will be able to understand introductory microeconomic theory, solve basic microeconomic problems, and use these techniques to think about a number of policy questions relevant to the operation of the real economy.

NU Course Equivalent: ECON 1116, Principles of Microeconomics. NUpath: SI, AD.

Technology and Human Values

As long as there have been humans, there has been technology. Technology so permeates our form of life that some have characterized human beings as the technological animal. But while a relationship with technology is given, the nature of that relationship is not. Both human history and the contemporary world are replete with diverse and sometimes contradictory ways of conceiving of how people and technology interact. This course is oriented around these general questions: (1) What is the proper way to understand the relationship between humanity and technology? (2) What critical perspectives and tools can we use to evaluate the social, ethical, and to political dimensions of technology? (3) How can we make good decisions about incorporating emerging technologies into our society and lives?

NU Course Equivalent: PHIL 1145, Technology and Human Values, NUpath: SI, ER.

N.U.in Ireland, University College Dublin (UCD)

Anatomy & Physiology with Lab

This module aims to help you understand how the human body maintains health, introducing you to scientific principles in the areas of anatomy and physiology. Learning will focus on the organization of the human body (concepts of cells and their environment), homeostasis, protection, communication, perfusion (cardiovascular and respiratory system), hydration, nutrition, metabolism and reproduction. The module will provide you with the grounding and understanding of the normal structure and function of the human body over the course of the lifespan and the basis to understand the changes that occur in altered health. The module is underpinned by the philosophy that Anatomy and Physiology is a critical element for nursing competency.

NU Course Equivalent: BIOL 1119/1120, Integrated Anatomy and Physiology 2 with Lab, NUpath: ND, AD.

Architectural Design I

The foundation year studio program seeks to unlock the creative and intellectual potential of each student. The program introduces students to ways of observing, representing, making and thinking about architecture. It begins with a close-up consideration of spaces, objects, places, and events and gradually introduces a wider range of constructional, social, cultural and environmental concerns. This work is supported by learning a broad range of technical and representational skills through a combination of studio work and independent but related skills workshops. A series of set projects invite design responses across a range of scales employing different media; offering each student the means of developing a work method. These projects involve a combination of both individual and group work. A variety of visits to buildings and cultural events during the trimester will provide a supporting cultural program, attendance at these events is mandatory. The module requires all students to make a collective exhibition of their work at the end of the trimester. The mark in Drawing and Making Studio contributes 12% to the overall Design Studio Grade. Approximately 252 hours are dedicated to this module, including studio work, lectures, tutorials, seminars and reviews. Attendance in studio each week during scheduled studio hours is mandatory.

NU Course Equivalent: ARCH 3450, Advanced Architectural Communication. NUpath: ND, AD.

Calculus for Several Variables

This course introduces the calculus of functions of two or more real variables. Beginning with partial derivatives, the topics of linear approximation and the differential are dealt with. The course then examines critical points, maxima and minima, and constrained optimization. Line integrals, double integrals, vector fields and the relationships between these concepts are explored. Students will be able to: sketch a level set or multidimensional graph; compute limits of multivariable functions; calculate partial and directional derivative; find and use the linear approximation of a function; find and classify critical points; optimize a function over a region or over a curve or surface; evaluate line and double integrals, and exploit the relationship between them.

NU Course Equivalent: MATH 2321, Calculus 3 for Science and Engineering. NUpath: FQ.

Cell Biology and Genetics

This module will provide an introduction to the cell, its structure, and functioning. The basis of genetics and inheritance will also be explored. The following topics will be covered: (1) An overview of cell structure, content and the macromolecules within them; (2) An introduction into cell communication, signaling and messaging; (3) How cells work- cellular respiration, fermentation and photosynthesis; (4) The cell cycle and the key roles of cell division; (5) How meiosis and sexual life cycles provide biological variation; (6) Introduction into genes and inheritance from a Mendelian perspective; (6) The link between chromosomes, genes and inheritance; (7) DNA and the molecular basis of inheritance; (8) How proteins are made from genes; (9) How genomes can inform our understanding of life's diversity; (10) Brief introduction into basic genetic molecular techniques.

NU Course Equivalent: BIOL 1111/1112, General Biology 1 with Lab. NUpath: ND, AD.

College Writing

This course offers students the opportunity to move across texts and genres, thus focusing on the basics of compositions and the use of metaphor, organization, selection, gaps and silences, tone, and point of view. Through a series of sequenced assignments, students read fiction and non-fiction texts of some complexity, make the critical interpretation of these texts the occasion for their own writing, write the expository prose that makes use of a variety of rhetorical strategies, conduct library research when appropriate, reflect on and assess their writing, and refine their documentation skills. Requires students to write multiple drafts and emphasizes the writing process as well as the quality of the finished product. Students keep a portfolio of their work.

NU Course Equivalent: ENGW 1111, First-Year Writing. NUpath: WF.

N.U.in Ireland, University College Dublin (UCD) – continued

Composition, Performance, and Reception

Music, film, and theatre constitute three distinctive art forms, and as such they each rely upon (and sometimes break) the conventions specific to their medium. Nevertheless, they also share elements of formal structure, thematic content, and perhaps most importantly, an emphasis on temporality, with the expectation that an audience would experience and understand these art forms in real time. These three art forms also influence, intensify, and transform each other, both in situations where they are directly combined, and more generally through dialogue between texts.

NU Course Equivalent: INAM 1990, Interdisciplinary Studies Elective in Arts, Media, and Design.

Digital Judgement

An important attribute of the effective digital consumer and scholar is the ability to critically appraise and discern high quality online information. However, the knowledge and skills required for selecting and evaluating digital information accessed through the Internet using websites and apps such as Google, Facebook, Twitter and YouTube, on mobile phones, tablets, and other devices, continue to elude many. Students on this module will learn to act as intelligent digital judges, exploring digital information as an entity to be scrutinized, verified, and classified to enable us to locate, generate, and apply trustworthy digital information in personal, professional, and academic contexts. They will also consider the questions of online privacy, the presentation of self online, and digital footprints, in order to understand the potential consequences of their online activities.

NU Course Equivalent: INSH 1990, Interdisciplinary Studies Elective in Social Sciences & Humanities.

Discovering Ireland's Geology

The Irish geological record contains over a billion years of Earth history preserving memories of the uplift of Himalayan-sized mountains, volcanic eruptions, warm tropical seas and polar ice caps. This module will introduce through fieldtrips and online material how we can interpret the ancient rock record to reveal the past, and explore the links between the bedrock beneath us and today's landscape and society. As part of this module students will visit sites of outstanding geological interest in the Dublin area and beyond, including to the world famous Cliffs of Moher and Burren and use Google Earth to explore global plate tectonics and climate change through time. The module is intended for students with an interest in geology and the environment and as an introductory course is designed for those with limited or no prior knowledge of geology or geography.

NU Course Equivalent: ENVR 1200/1201, Dynamic Earth with Lab, NUPath: ND.

Dublin Its Museums and Collections

This new elective module will be team-taught by lecturers in the School of Art History and Cultural Policy. Dublin is home to a rich variety of museums, whose collections survey the entire history of Irish art, but also include outstanding examples of European and Islamic painting. The purpose of this module is to create an enhanced appreciation of art among students who are not majoring in art history, by fostering a direct engagement with these works of art and architecture. Two one-hour meetings a week incorporating both slide lectures and at least some discussion will focus upon art in Dublin museums and the architecture of the museums themselves. Although short readings will be assigned, the principal demand made upon students outside of class hours will be to visit the collections in which the works are displayed. This module is introductory in nature, and aimed at students with no previous experience of art history. It is not suitable for students intending to major/minor in art history.

NU Course Equivalent: ARTH 1111, Global Art and Design History: Renaissance to Modern. NUPath: IC, SI.

Foundations of Digital Technology

How do mobile phones actually work? Why are binary and hexadecimal of fundamental importance to computers? What should I look out for when buying a laptop? How do I read a CPU spec? What is the difference between the Internet and the World Wide Web? What is a programming language? These questions and more will be answered in this module. It aims to provide students with a grounding in the principal technological components of modern information systems. It will also help students to successfully tackle the technological aspects of subsequent level 2, 3 and 4 Information & Communication Studies modules.

NU Course Equivalent: CS 1990, Computer Science Elective.

N.U.in Ireland, University College Dublin (UCD) – continued**Foundation of Physics**

In this module, students learn to tackle problems of relevance for society with a high content of physics and engineering. Problems chosen by the students themselves are tackled in small working groups similar to the way in which industry handles research and development tasks. Examples that can be studied include energy supply and green energy, telescope building, optical communication networks, image processing, and many more. In the course of study, basic physical concepts are reviewed according to the needs. Group working skills in relation to problem solving will be essential for a successful realization of the module.

NU Course Equivalent: PHYS 1151/1152/1153, Physics for Engineering with Lab, and Interactive Learning Seminar. NUpath: ND, AD.

General Chemistry for Science Majors with Lab (Pending NU Approval)

Introduces the principles of chemistry, focusing on the particulate nature of matter and its interactions and reactions that form the basis for the underlying molecular dynamics of living systems. Presents basic concepts of chemical bonding and intermolecular interactions for molecules and molecules' behavior in aqueous solutions with examples from biologically relevant molecules. Introduces kinetics and chemical thermodynamics with examples from biological systems. Offers students an opportunity to obtain a framework for understanding the chemical basis for different methods for separating and purifying biological compounds. The Lab introduces basic laboratory techniques. Covers a range of topics including qualitative and quantitative analysis and the characteristics of chemical and physical processes.

NU Course Equivalent: CHEM 1161/1162/1163, General Chemistry for Science Majors with Lab, and Recitation. NUpath: ND.

History & Theory of the Designed Environment I - Perspectives on Architecture

The purpose of this course is to introduce the student to the various ways of approaching and learning about the history and theory of the designed environment. It is intended to build a common knowledge base for future architects, designers, landscape architects, planners and others involved in the procurement and management of the designed physical environment. Notwithstanding this perspective, it is accessible to students from all disciplines. It is an introductory course that covers several perspectives on architectural, urban and landscape forms. The narrative embraces a number of themes that embody cultural contexts, the impact of science and technology, and the work of individual designers, architects and patrons within a predominately European context. This course also seeks to indicate the relationship to other material cultural artifacts and explore cultural exchanges with North Africa and the East. Central to the course is the development of an understanding of how traditions, images and ideas have been assimilated to create new forms that respond and adapt to new requirements.

NU Course Equivalent: ARCH 1370, Special Topics in Architectural History. Does not carry NUpath.

Introduction to Calculus for Engineers

This is a mathematics module designed for engineering students. It provides an introduction to differential and integral calculus of functions of one variable, and to differential equations. The outline of this course is the following: (1) Review: Functions and graphs (equation of line and parabola), tangent line; (2) Limits: Notion of a limit, statements of basic limit theorems; (3) Differentiation: Notion of derivative, product and quotient rules, derivatives of polynomial functions, review of trigonometry, derivatives of trigonometric functions, chain rule, inverse functions, derivatives of inverse functions, implicit differentiation, higher derivatives; (4) Transcendental functions: Natural logarithm and its derivative, exponential function and its derivative; (5) Applications of differentiation: maxima and minima, second derivative test; (6) Indefinite and definite integrals, the fundamental theorem of calculus, substitution, integration by parts; (7) Applications of integration: area under the curve, moments; (8) Geometric series, MacLaurin and Taylor series of a function of a single variable, binomial series; (9) Differential equations: first order and second-order linear equations with constant coefficients (homogeneous and non-homogeneous).

NU Course Equivalent: MATH 1341, Calculus 1 for Science and Engineering. NUpath: FQ.

Introduction to Irish Folklore

This module is designed to give students a comprehensive overview of what is meant by the term 'folklore', and to introduce them to the academic study of the subject. In the course of the module, folklore is defined and described in its many manifestations, and students learn about some of the more important sources for the study of folklore and popular tradition in Ireland and abroad. Examples of both oral tradition and material culture are examined, including narrative and storytelling, vernacular architecture and other aspects of ethnology, traditional belief systems and views of the otherworld, as well as popular custom and practice. A basic introduction is given to a number of international systems of classification used in the study of folklore, and to some of the theoretical approaches to the subject. Contemporary forms of folklore, and the persistence of certain themes in popular culture, are also discussed.

NU Course Equivalent: LITR 1990, Culture - Literature Elective. NUpath: IC.

N.U.in Ireland, University College Dublin (UCD) – continued**Introduction to Psychological Science**

Why do humans behave, think and feel as they do? This module will introduce students to a basic understanding of psychology's explanations for human thought, feelings and behavior, covering the core concepts, theories and research methods that psychologists use. Among other topics, we will cover aspects of child development; personality; thinking and learning; social interaction; therapeutic approaches and biological psychology. The module will place psychology in a real-world context, addressing cultural differences in human behavior and considering how psychology can be applied in everyday life. Online support will be provided throughout the course via Brightspace.

NU Course Equivalent: PSYC 1101, Foundations of Psychology, NUpath: ND, SI.

Introduction to Sociology

This module provides an introduction to the discipline of Sociology. The task of sociology is to explain the social world in which we live. This involves asking and answering questions about the nature of the world around us, why things are the way they are, how they developed in that way rather than any other, and so on - in fact, everything from global patterns of social change to the nature of individual identity. Studying sociology requires us to explore taken-for-granted aspects of everyday life, and to be aware that things could be, and are, different. This involves learning to see things 'sociologically' by developing a 'sociological imagination'. The aim of this module is to cultivate such an imagination. In this module, we will consider the nature of sociology in terms of its historical origins, its key theoretical traditions, and the role of research in analyzing social issues. Once we have laid this groundwork, we will consider some of the core dimensions of society - the nature of culture, the role of organizations, and so on. The module then examines some of the main social institutions and patterns of social relations around which our lives are structured, and through which resources - power, wealth, status - are distributed. Sociology helps us understand the role these institutions and structures play in our daily lives, and the ways in which society 'makes' us and how we in turn 'make' society.

NU Course Equivalent: SOCL 1101, Introduction to Sociology. NUpath: SI.

Microeconomics for Business

The aim of this module is to introduce students to core microeconomic principles and how they can be used to help understand decision making and behavior in a business environment. The module focuses on markets as the principle arena where these decisions are made and stresses that both firms and consumers make choices under conditions of scarcity and do not have unlimited resources. A model of consumer demand is presented showing how consumers respond to changes in prices, incomes and other factors. On the supply side, a model of the production decisions of firms is presented and the roles of costs and technology are explored. Market structure is also explicitly considered ranging from perfect competition to monopoly and the strategic interaction of firms is also addressed. Finally, and very importantly it is stressed that markets often fail and in those cases some form of intervention, typically but not exclusively provided by government, to correct these failures is warranted. The module assumes no previous knowledge of economics.

NU Course Equivalent: ECON 1116, Principles of Microeconomics, NUpath: SI, AD.

Music in Ireland

This module provides students with both a thorough introduction and experiential immersion in the music of Ireland, and aims to encompass all its richness and variety. No previous knowledge of Irish musical history is required and neither is it necessary to be able to read musical notation. The module will engage with the music of Ireland from the seventeenth century to the present day and will encompass three principle types of music- traditional, classical, and popular. The music of Ireland will be examined in its historical context and will be situated within the wider international context. The music's historical, social, cultural, and political dimensions will be discussed. In addition to lectures, students are strongly encouraged to attend musical events around the city of Dublin, in order to engage with live music over the course of the semester.

NU Course Equivalent: MUSC 2540, Special Topics in Music. Does not carry NUpath.

Music, Politics and Post-Truth

In recent months alternative facts, fake news and similar terms have become more and more commonplace among politicians, media and other public influencers alike in what is now often dubbed the age of post-truth. Expertise appears to be discredited, gut feeling at least as important as facts, and facts themselves no longer valid and reliable. How and why did we get to this point, and is it really impossible now to distinguish between facts and their different interpretations by opposing parties in public discourses? This module will track philosophical, sociological and political concepts that shaped today's world views from the enlightenment via Nietzsche, psychoanalysis, structuralism, postmodernism and others. Each week, theoretical concepts will be discussed in one class while music-related examples will illustrate those concepts in the second one. Room will be given to questions raised by students regarding issues they are particularly concerned about.

NU Course Equivalent: MUSC 1990, Music Elective.

N.U.in Ireland, University College Dublin (UCD) – continued

Perspectives on Film I

This module will examine a range of issues and approaches in the academic study of film, enabling students to familiarize themselves with important writing and thinking about the cinema. It will develop students' ability to analyze how film works formally and stylistically, and to think and write critically about cinema's ideologically charged relationships with society, politics, and culture.

NU Course Equivalent: MSCR 1990, Media and Screen Studies Elective.

The Irish Presence in America

This module will address the influence and effect of the Irish diaspora in America and explore the input, contribution and impact of the enormous Irish community there. Some 35.5 million people in America claim Irish descent. The time period under review begins with the mass emigration caused by the Great Famine in Ireland in 1845 and the assimilation and influence of this diaspora on American culture. It will analyze the reaction of the Irish-Americans to the rising nationalist movement in Ireland from 1890 to 1922. Moving to 'second wave' emigration in the 1950s, lectures will discuss how the strength of the Irish community grew in Post-War America to become a recognizable force politically, socially and culturally. The current status of the Irish in America will also be considered.

NU Course Equivalent: INSH 1990, Interdisciplinary Studies Elective in Social Sciences & Humanities. NUPath: IC, SI.

Writing about Music

This module is designed to acquaint students with different writing styles about music as well as researching and structuring an essay- both on the basis of conscious listening to music and learning to verbalize our impressions. After engaging with stylistic questions while writing a song review and a concert review students will engage in planning, researching, and writing an academic essay of 1,500 words. This they will do in three separate steps: putting together an annotated bibliography, writing a sample section of the essay and completing the essay. The feedback for the first two steps (including peer feedback by other students) is intended to improve the final product.

NU Course Equivalent: MUSC 1990, Music Elective.