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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

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.

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.

Business Statistics

Offers students an opportunity to obtain the necessary skills to collect, summarize, analyze, and interpret business-related data. Covers descriptive statistics, sampling and sampling distributions, statistical inference, relationships between variables, formulating and testing hypotheses, and regression analysis in the context of business. Use of the SPSS statistical programming package is an integral part of the course.

NU Course: MGSC 2301. NUpath: AD.

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.

N.U.in Boston -- *continued*

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.

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 include 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.

N.U.in Boston -- *continued*

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.

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

Corresponds to one semester of study in important areas of modern chemistry, such as details of the gaseous, liquid, and solid states of matter; intra- and intermolecular forces; and phase diagrams. Presents the energetics and spontaneity of chemical reactions in the context of chemical thermodynamics, while their extent and speed is discussed through topics in chemical equilibria and kinetics. Aspects of electrochemical energy storage and work are considered in relation to batteries, fuel, and electrolytic cells.

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.

N.U.in Boston -- *continued*

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..

History of Global Pandemics

This course examines the historical roots of 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 include globalization, from its origins in the sixteenth century to the present, and the potential for global pandemics to alter the course of history, from bubonic plague in the fifth century to H1N1. This module addresses how historians identify the diseases responsible for historical epidemics. Focusing on the difficulty identifying the pathogens responsible for the epidemic most commonly known as the Black Death and the outbreak of epidemic disease in New England in 1616-19 that devastated Native American populations, it highlights the uncertainties and challenges involved in using historical diseases as comparisons for COVID-19. An emphasis is on learning how to analyze historical evidence and ascertain how these retrospective diagnoses are used to make arguments about health and illness in our present moment. We'll look at case studies and examine the links between past and present, and attempts to identify ways forward.

NU Course: HIST 1219. 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.

Introduction to Business

Blends theoretical principles with real-life application. Introduces the fundamentals of launching, growing, and managing a business venture in today's dynamic and increasingly global environment. Examines concepts within multiple academic disciplines and from multiple perspectives—including marketing, technology, finance, accounting, information systems, people, and culture—and then applies them to new ventures within varied types of organizations. Offers students an opportunity to develop an entrepreneurial skill set and mind-set through the development of the critical thinking, innovative decision making, problem solving, and team building needed for any business, large or small.

NU Course: BUSN 1101. Does not carry NUpath.

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.

N.U.in Boston -- *continued*

Introduction to Marketing

Provides an overview of the role of marketing in business and society. Considers the planning, implementation, and evaluation of marketing efforts in consumer and business-to-business companies, in service and goods companies, and in for-profit and nonprofit organizations. Also examines contemporary issues in marketing that can affect organizational success. A term project is used to enable students to apply their learning about the fundamentals of marketing.

NU Course: MKTG 2201. Does not carry NUpath.

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.

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.

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 and Recitation

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 1161/1162/1163. NUpath: ND, AD.

N.U.in Boston -- *continued*

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, EX.

N.U.in England

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.

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.

N.U.in England -- *continued*

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, DD.

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.

Design Process and Systems

This is a foundation visual studies course offering students an opportunity to discover and search out basic principles inherent in design processes and systems. It explores common design practices, principles, and vocabulary, 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. The course explores the practice of design as an iterative process, giving students an understanding of the value of systems thinking and the importance of feedback and exchange as a means for assessing the quality of design's effectiveness in communicating social and cultural research.

NU Course Equivalent: ARTG 1250: Design Process Context and Systems. NUpath: EI.

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 Recitation. NUpath: FQ.

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.

N.U.in England -- *continued*

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.*

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.

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.

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.

N.U.in England -- *continued*

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 Greece

Beginning Modern Greek I

The course introduces students to the Greek language and culture. While keeping with listening comprehension techniques, speaking, reading and writing, this course integrates culture as the fifth skill of language. Students will learn the vocabulary necessary for daily communication but also develop a cultural awareness through different activities both inside and outside the classroom. Teaching material is taken both from textbook and non-textbook sources. Grammar will be provided through guided and communication exercises. Students practice role-playing, act out everyday situations and interact with locals outside the structured class environment.

NU Course Equivalent: FLNG 1990, Foreign Language Elective

Business Calculus

This course covers: rate of change and introduction of the derivative for functions of one variable; applications of the derivative to graphing one-variable functions and to optimization problems; introduction of functions of several variables and partial derivatives; problems of unconstrained and constrained multivariable optimization; applications of differential equations; integration of functions of one variable and applications; and advanced methods of optimization.

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

Business/Professional Communication

The course focuses on professional reading writing and speaking skills and provides instruction in drafting and revising various forms of business and professional communication such as emails, proposals and reports. Through class discussions and other oral activities, students will have the opportunity to enhance their public speaking skills. The course covers all fundamental principles of professional writing, including a focus on appropriate grammar, mechanics and usage. Course readings/samples of professional writing are provided to generate topics and to study as models for structure and style in professional writing.

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

Calculus I for Science and Engineering

This course 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. This course 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, anti-differentiation, the fundamental theorem of calculus, and integration by substitution.

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

Calculus II for Science and Engineering

The purpose of this course is to give a solid foundation in Calculus concepts, tools and techniques for the student entering Science and Engineering fields. This course is a continuation to Calculus I for Science and Engineering where the student mastered: limits, differentiation, anti-differentiation and basic integration skills of 2D functions as well as basic introduction to parameterized curves and motion. This course will cover techniques and applications of integration, infinite series, and introduction to vectors, among other topics.

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

Calculus III 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.

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

NOTE: Requires prior completion of MATH 1342: Calculus II for Science and Engineering or course equivalent.

N.U.in Greece -- *continued*

Contemporary Society

This course will explore the discipline of sociology, with a particular focus on the key concepts and issues relating to the study of contemporary society and culture. The course seeks to establish a methodological balance between theoretical grounding and an applied framework as it examines the following thematic issues: social and cultural theoretical perspectives, globalization, power, ethnicity, gender, the mass media, and the dynamics of culture in the contemporary world. In this context, the course introduces students to some key sociological perspectives, which allow them to understand how modern society functions. The sociological perspective will enable students to evaluate the effects of social influences on individual lives, understand fundamental social changes, and acquire a better understanding of social relations.

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

Ecological Principles

The goal of the course is to introduce students to general ecology. It focuses on major ecological concepts in order to provide students with a robust framework of the discipline upon which they can build.

NU Course Equivalent: EEMB 2302/2303, Ecology. NUpath: FQ.

Financial Accounting

This course introduces students to the basic terminology and procedures of accounting and the use of this financial information in financial statements. Familiarize students with the difficulties and problems of modern businesses in regards to the accounting and book-keeping procedures.

NU Course Equivalent: ACCT 1201, Financial Accounting and Reporting

General Biology II with Lab

Examines the evolution of structural and functional diversity of organisms; the integrative biology of multicellular organisms; and ecological relationships at the population, community, and ecosystem levels.

NU Course Equivalent: BIOL 1113/1114, General Biology 2 with Lab. NUpath: ND.

General Chemistry for the Biological Sciences

This course is designed to introduce biology students to the fundamental principles of chemistry. Topics to be covered include atomic structure, chemical equations, the periodic table, chemical bonding and intermolecular interactions, thermochemistry, reaction spontaneity, reaction rates, chemical equilibria, acid base chemistry and reactions in aqueous systems. Emphasis will be given to applications of chemical principles in biological systems.

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

Greek Art Through the Ages

The course will be an introduction of a comprehensive and compact study of the arts of Greece from the Ancient to the Modern time. Through the examination and understanding of the arts, the complex political, social and religious life of the country through the years of its existence will be highlighted. The study will start chronologically from the ancient times, covering the basic and most essential examples of the most important period that set the base of the foundation of the Western civilization; continue with the Roman, Early Christian and Byzantine Eras; the arts during the period of the Ottoman Occupation; and finally end with the revival of Modern Greek art after the 1830's with the establishment of the Modern Greek State.

NU Course Equivalent: ARTE 2501, Art and Design Abroad: History. NUpath: EI, IC.

Integrated Human Anatomy and Physiology I

Covers the anatomy and physiology of integumentary, muscular, skeletal, nervous and endocrine systems as well as learning the basic molecular and cellular biology necessary to understand the human body. Many key concepts will be carried over into the second part of this course, BIOL 1119 (A&P 2). This information will serve as the foundation for most of the courses in the health field.

NU Course Equivalent: BIOL 2217/2218, Integrated Anatomy and Physiology 1 with Lab. NUpath: ND.

N.U.in Greece -- continued

Introduction to Marketing

This course familiarizes students with the primary principles of Marketing and in the process develop their abilities in analyzing market situations and contribute to the formulation of a marketing strategy.

NU Course Equivalent: MKTG 2201, Introduction to Marketing

Introduction to Psychology

This course provides an introduction to psychology for the non-specialist and assumes no prior knowledge of psychology. It provides students with an overview of the evolution of psychology as a discipline and a range of applications of psychology. The course will include such topics as the history of psychology, the scientific approach to behavior, biological basis of behavior, learning theories, intelligence, personality development and measurement, psychological disorders and treatment, and social influences on behavior. Throughout the course, there will be emphasis on understanding how psychologists obtain their knowledge about human behavior and mental processes and on how this knowledge can be applied to everyday life.

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

Introductory Microeconomics

This course is a continuation of the introduction to modern economic analysis concentrating on the factors affecting behavior and decision-making by households, business firms, and institutions operating under a mixed socioeconomic system. It also considers the issues of market failures and introduces basic concepts of international economics.

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

Principles of Biology

This course is designed to introduce the basic principles of modern biology, the framework within which new discoveries are interpreted, and the relations among various branches of biological research. The goal of this course is to provide first-year college students with a firm grasp of the major concepts underlying biological processes. Students who are interested in careers in biological sciences, biomedical sciences, and biotechnology should find that the course provides a firm grasp on an understanding of the concepts that will serve them well in their academic track that lies ahead. The materials covered include the structural and functional aspects at the molecular and cellular level of the following: cell structure and function, cell organelles, cellular reproduction, cellular respiration, photosynthetic pathways, Mendelian inheritance, DNA structure, replication, gene structure, gene function and expression/control, evolution.

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

Religions of the World

This course will expose students to a comparative study of five of the world's main religious traditions, exploring those traditions through their literatures, while focusing also on origins, cultural contexts, histories, beliefs, and practices. Through reading, discussion, and visual appreciation of artistic renditions of religious world-views, students will gain valuable understanding of traditions other than their own, contributing to their broadened and deepened awareness of the world.

NU Course Equivalent: PHIL 1111, Introduction to World Religions. NUpath: DD, ER.

Social Psychology

The aim of this course is to develop student's knowledge and understanding of key areas in Social Psychology such as: social thinking (which includes the topics of the self-concept; self-serving bias; stereotypes and prejudice), social influence (which includes the topics of persuasion; health and well-being in today's societies) and social relations (looking at the topics of aggression, discrimination, liking and helping). Biological, cognitive, emotional and socio-cultural aspects will be discussed while presenting the above key areas. The students will also learn about the related field of Community Psychology and how its main principles and research findings apply to contemporary communities. Finally, research related issues such as ethics and methodologies in Social Psychological research will be covered. By presenting the main concepts, theories, research methods and key studies in Social Psychology, the course aims to help students evaluate the usefulness of the above in today's societies as well as recognize the limits of generalizing social psychological research to all gender/ethnic/cultural/age groups.

NU Course Equivalent: PSYC 3402, Social Psychology.

N.U.in Greece -- *continued*

Statistics with Software

This module is an introduction to descriptive and inferential statistical methods. This introductory module covers the concepts and techniques concerning exploratory data analysis, frequency distributions, correlation, central tendency and variation, probability, and sampling distribution statistical inference. Students will be exposed to these topics and how each applies to and can be used in the business environment. Students will master problem solving using both manual computations and statistical software.

NU Course Equivalent: MATH 2280, Statistics and Software. NUpath: AD.

The Politics of the European Union

This module aims to introduce students to the major historical, political and legal developments leading to the creation of the European Union. The historical evolution of the European Union, the relevant treaties, EU institutions, aspects of EU law and some major EU policy-making processes will be examined. Finally, theories of European integration will be analyzed and the future of the EU will be discussed.

NU Course Equivalent: POLS 2990, Political Science Elective. NUpath: SI.

Thessaloniki: A City and Its Inhabitants

Throughout its history, Thessaloniki has been home to many different peoples and cultures. The purpose of this course is to review the history of the city and to focus on the different ethnic communities which have inhabited it, including principally Greeks, Turks, Jews, and Armenians, among others. The course will consider the establishment of the city in Hellenistic times, its Roman and Byzantine periods, the impact of the Ottoman occupation, the coming of the Sephardic Jews, the effects of the Balkan and the two World Wars as well as those of the Holocaust on the city. It will include visits to important cultural sites as the Archeological Museum, the Museum of Byzantine culture, the Jewish Museum of Thessaloniki, Roman antiquities, and Ottoman buildings.

NU Course Equivalent: HIST 1990, History Elective.

Understanding Greek Life and Culture

The course provides an understanding of contemporary Greek life and what it means to be Greek. It does so by examining the practices and creations of Greek culture, as well as by identifying and understanding the main figures of Greek life and the political scene through time. In addition, it develops students' intercultural and communicative competency so that they can interact both locally in Greece and in the global community.

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

University Physics II for Science and Engineering

Covers calculus-based physics. Offers the first semester of a two-semester integrated lecture and laboratory sequence intended primarily for engineering students. Covers Newtonian mechanics and fluids. Stresses the balance between understanding the basic concepts and solving specific problems. 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.

NU Course Equivalent: PHYS 1155/1156/1157, Physics for Engineering 2 with Lab, and Interactive Learning Seminar. NUpath: ND, AD.

N.U.in Ireland

Global Learning Experience

This online seminar will focus on global citizenship and cultural difference in the twenty-first century. We will begin by defining global citizenship and examining its origins and critiques. We will then explore frameworks of intercultural learning and praxis. You will critically analyze and apply these ideas as you engage in personal reflection and team-based problem-solving, connecting issues you encounter during your own global experience in your N.U.in host site with broader dynamics of globalization, migration, positionality, power, and privilege.

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

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 2219/2220, 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.

N.U.in Ireland -- *continued*

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.

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.

Early Irish Theatre Movement

This course will examine plays from the early twentieth century which led to the foundation of an Irish national theatre. Individual texts by the following authors will be considered: W.B. Yeats, Lady Gregory, J.M. Synge, Sean O'Casey. Attention will be paid to the aims of the founders, the dramaturgic innovations of the movement, but also to the reality they encountered in their reception, to the political and social conditions in which the plays were first performed. The course will also ask the students to consider the contemporary relevance of the work, how these plays might translate into the 21st century.

NU Course Equivalent: THTR 1990, Theater Elective.

N.U.in Ireland -- *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 1151/1152/1163, Physics for Engineering with Lab and Seminar. NUpath: ND, AD.

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 2370, Topics in Architectural History.

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, Literature Elective. NUpath: IC.

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.

N.U.in Ireland -- *continued*

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, DD.

Introductory Chemistry

The course will emphasize fundamental principles, including: the electronic structure of atoms; the relationship between electronic structure and the physical and chemical properties of the elements; the nature of chemical bonding, including ionic, covalent, polar covalent and metallic bonding; the relationship between the properties of compounds and their composition and bonding; the nature of the interactions between substances; the nature of chemical change, including stoichiometry and basic concepts of kinetics, thermodynamics and chemical equilibrium; the importance of energy, and energy flows, in understanding chemical and physical processes; the importance of chemistry in understanding ourselves, in our society, and in our environment.

NU Course Equivalent: CHEM 1161/1162, General Chemistry for Science Majors with Lab. NUPath: ND.

Making, Doing, Interpreting

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: MUSC 1001, Music in Everyday Life. NUPath: EI, IC.

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 2313, Topics in World Music. NUPath: IC, DD.

N.U.in Ireland -- *continued*

Musicianship

This course covers the rudiments of music, including writing and reading scores, and the fundamentals of music theory (melody, rhythm, tonality, key, intervals, etc.). Basic concepts in writing and analyzing harmony are introduced (including degrees of the scale and Roman numeral notation). These fundamentals are reinforced and developed through aural analysis, which focuses on listening skills, score-reading and the basics of musical genres (instrumentation, texture, timbre, etc.). At the end of the course, students should be able to write and read music fluently, to listen intelligently to recordings whilst following a score, and to identify basic technical features in music of different styles.

NU Course Equivalent: MUSC 1119, Fundamentals of Western Music Theory. NUpath: EI.

News Media Today

The course will give students an overview of the key issues impacting today's news media system. The boundaries between new and old media are constantly being re-negotiated. Students will learn how different mediums are co-evolving together and how this is creating new opportunities for different players to get involved in the political narrative formation process that shape the way we understand specific news events. The course will examine the different dynamics shaping the U.S. media landscape through the prism of a global audience. It will also examine issues such as freedom of expression, disinformation campaigns and computational propaganda and how they impact the media in different parts of the world.

NU Course Equivalent: JRNL 1150: Understanding Today's News. NUpath: SI, DD.

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.

Popular Music and Culture

This module examines the development of Western Popular Music from the 1950s to the present day. Although the course content is arranged chronologically, the course is not an exhaustive survey. Rather, each week focuses on a selected genre or thread in modern popular music, from rock and roll to hip-hop to underground and dance music; by examining these genres and threads, students are introduced to theoretical frameworks by which they can analyse and understand the music in question. These frameworks include media theory, gender and performativity, and the critical examination of race and identity. We also focus more broadly on how popular music propagates itself over time via its relationship to technology, cultural and subcultural movements, and political currents. Although the course does introduce and employ a few basic musical-analytical concepts, it is an elective course and has no prerequisites.

NU Course Equivalent: MUSC 2310, Popular Music Since 1945. NUpath: IC, SI.

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.

Theatre Context and Conventions

This course offers students the opportunity to develop their skills in reading dramatic texts from diverse periods in the European theatrical tradition, and to trace the development of theatre from the Greek classical period, through the Elizabethan and Restoration periods, and into the nineteenth century. Students will discuss and analyse theatrical conventions at play in a range of texts, and examine the relationship between space, audience, language, and convention.

NU Course Equivalent: THTR 1990, Theater Elective.

N.U.in Ireland -- *continued*

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.

N.U.in Italy

Global Learning Experience

This online seminar will focus on global citizenship and cultural difference in the twenty-first century. We will begin by defining global citizenship and examining its origins and critiques. We will then explore frameworks of intercultural learning and praxis. You will critically analyze and apply these ideas as you engage in personal reflection and team-based problem-solving, connecting issues you encounter during your own global experience in your N.U.in host site with broader dynamics of globalization, migration, positionality, power, and privilege.

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

Ancient Greek and Roman Philosophy

The philosophers of ancient Greece and Rome debated fundamental questions with an imagination, subtlety, and daring that have captured the attention of thoughtful people in every epoch. For example, they considered the nature and origin of the universe, what changes and does not change, as well as what causes change, how perception and reasoning produce knowledge, the relation between the soul and the body, the meaning of justice and beauty, and the nature of the good life. Through a careful reading of selected texts – in the form of dialogues, poems, aphorisms, or treatises – the course will introduce you to the great questions and controversies of ancient philosophy.

NU Course Equivalent: PHIL 2325, Ancient Philosophy and Political Thought. NUpath: IC, ER.

Ancient Rome and Its Monuments

This on-site course considers the art and architecture of ancient Rome through visits to museums and archaeological sites. The course covers the visual culture and architecture of Rome beginning with the Iron Age and ending with the time of Constantine. A broad variety of issues are raised, including patronage, style and iconography, artistic and architectural techniques, Roman religion, business and entertainment.

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

NOTE: Requires Frequent Walking Tours of City Museums and Sites

Beginning Painting

This course introduces the basic issues of oil painting through a series of classic problems: the still life, figure study, portrait and others. Emphasis is on control of color and light and dark value, while building form in a coherent pictorial space. Oil is the preferred medium, and students buy their own materials. The course introduces connections between studio work and the history of painting.

NU Course Equivalent: ARTS 2340, Painting Basics. NUpath: EI.

Calculus for Business

This course introduces students to the use of derivatives and integrals in solving problems in business and economics, e.g., maximizing profit, calculating average investment income, future value of an income stream, and consumers' surplus. The course includes using technology as a tool to make graphical representations and computations as part of the applying the mathematical theory to working with data, modeling, problem-solving and interpretation of results. A project involving optimization is also required. The course provides students with a study of calculus and its application to solving business and economic problems using technological tools such as Microsoft Excel to explore and graph data, model basic economic and business situations, problem-solve, and interpret and communicate the results.

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

Cities, Towns & Villas: Rome, Ostia, Pompeii

Rome, Ostia and Pompeii are three of the best-preserved archaeological sites in the world. Through their study, students are able to comprehend the physical and social nature of Roman cities and how they transformed over the course of centuries. Students explore the subjects of urban development, public and private buildings, economic and social history, and art incorporated into urban features (houses, triumphal monuments, etc.). In Rome, students focus primarily upon public buildings commissioned by Senators and Emperors: temples, law courts, theaters, triumphal monuments, baths. In Ostia, the port-city of Rome, students are able to experience many aspects of daily life: commerce, housing, religion, entertainment. Pompeii represents a well-to-do Republican and early Imperial period city that was influenced by the Greeks and Romans and preserves some of the most magnificent frescoes in the world.

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

N.U.in Italy -- continued

Contemporary Italian Society

This course introduces students to the complexities of contemporary Italian society, taking a primarily 'bottom-up' social science approach by examining a wide variety of contexts and exploring the ways in which Italians express, negotiate and transform their cultural and social identities. By drawing on a growing body of anthropological and sociological research, it provides students with the tools to question rigid and dated assumptions about Italian social life and enables them to analyze its multifaceted, dynamic and often contradictory forms and practices, focusing primarily on the last two decades. Students are introduced to key theoretical and methodological approaches in the sociological and anthropological study of contemporary Italy. We analyze the rising appeal of populist and 'anti-political' discourses and figures and then focus on how Italy's strong civic movements are struggling to improve social life 'from below'. Lastly, we examine how migration is changing social and cultural life as the country becomes increasingly multiethnic, how religious (and secular) identities are expressed, and the effects that Italy's dramatic brain-drain is having within the country.

NU Course Equivalent: CLTR 1503, Introduction to Italian Culture. NUpath: IC.

Digital Photography

This is a course in basic digital photography. The theoretical component includes the basic functions of the camera, the use of lighting, principles of composition, interaction between colors, a discussion of architecture and interiors, and basic principles of the elaboration of photos on the computer. The practical component involves picture taking and the preparation of a photo exhibition. Each student must be equipped with a digital camera with a wide lens or a 3x or greater optical zoom, and camera functions selector which includes M, A, S, P.

NU Course Equivalent: ARTD 2360, Photo Basics.

NOTE: A tripod is strongly recommended. Modern single-lens reflex (SLR) digital cameras with interchangeable lenses are highly recommended.

First Year Writing

This specific first-year writing course is developed with the goal that it will not only prepare the student to write at a college level, but will get her to question more deeply the reasons we write, the many ways in which that writing can be accomplished, and how these activities are not simply the solitary tasks of an individual, but are always mediations with the world at large. In working with these facts, the course will prepare students to think of themselves not as passive students and writers, but as active scholars and authors. In this class, students will have the opportunity to: write both to learn and to communicate what they learn; negotiate their own writing goals and audience expectations regarding conventions of genre, medium, and situation; formulate and articulate a stance through and in their writing; revise their writing using responses from others, including peers, consultants, and teachers; generate and pursue lines of inquiry and search, collect, and select sources appropriate to their writing projects; effectively use and appropriately cite sources in their writing; explore and represent their experiences, perspectives, and ideas in conversation with others; use multiple forms of evidence to support their claims, ideas, and arguments; practice critical reading strategies; provide revision-based response to their peers; and, reflect on their writing processes and self-assess as writers.

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

Genocide

The course examines such violent forms of identity politics as ethnic cleansing and genocide in an international and historical perspective. The program covers the genocides in Europe against the Jews and Roma, in Armenia, the Balkans, the Ukraine, Cambodia, Rwanda, and the Darfur region. Students will learn how to critically analyze processes and concepts related to ethnopolitics, ethnic cleansing, and genocide. They will be able to relate politics, events, and players within the political arena. Students will learn to contextualize and explain the process of identity politics and relate it to current international events. Students will be capable of critical analysis applied to the changing realities of identity politics in a global context. Students will develop an ability to conduct basic research, and organize and present their findings in a logical and independent way.

NU Course Equivalent: POLS 2282, The Holocaust and Comparative Genocide. NUpath: SI, ER.

N.U.in Italy -- continued

Greek and Roman Political Philosophy

This introductory, writing focused course offers students a philosophical encounter with the central ideas and arguments of Greek and Roman political philosophy. Through a reading of ancient texts in English translation – such as Plato’s Republic, Aristotle’s Politics, and Cicero’s Republic – students will scrutinize the major debates of Greek and Roman thought, including those about justice, the city, the regime, and the responsibilities of citizenship. The distinctive nature of classical thought – such as its insistence on the unity of ethics and politics, the importance of metaphysics for politics, the manner in which Socratic philosophy emerges from common opinion, and the idea of philosophy as a way of life – will be examined. While the aim of the course is to engage with the primary works of Classical thought, secondary literature will be assigned to illuminate historical context or wider themes, including the influence of the classical legacy on contemporary politics and political theory – for instance, on modern political forms, such as democracy, tyranny, republicanism, and the mixed constitution.

NU Course Equivalent: POLS 2325: Ancient Philosophy and Political Thought. NUPath: IC, ER.

Intercultural Communications

An exploration of some of the historical and political conditions that make intercultural communication possible, the barriers that exist to effective intercultural communication, and possible solutions to the problem of intercultural misunderstanding. The course examines examples of differences in communication styles not only between cultures but also within. As a result, issues of race, nation, class, gender, religion, immigration, and sexual orientation will be of significant concern. The course stresses the notion that knowledge of human beings is always knowledge produced from a particular location and for a particular purpose. As a result, it encourages students to think carefully about the discipline of Intercultural Communication—its conditions of possibility, its assumptions, and its blind spots—as well the need to be mindful of the limitations and interests of our positioning as investigating subjects.

NU Course Equivalent: COMM 2303, Global and Intercultural Communication. NUPath: SI, DD.

Introduction to Comparative Politics

This course is designed to be an introductory exposé of the study of “comparative politics,” one of the four classic subfields of research in the American school of Political Science. The study of comparative politics is an exercise in categorization and understanding which attempts, heroically or tragically, to chart and even predict the multitudinous political trajectories of nation-states around the planet. This course will introduce the student to a basic set of concepts and ideas which comparative political scientists employ to analyze differences and similitudes in the present and future political life of any given country. Although we will meditate on the origins of modern political systems, much emphasis will be put on using these meditations to understand contemporary political life. The personal digestion of current political events by the student will be key to this enterprise. In general, therefore, the course will tell a story about the modern nation-state, what differences have emerged among nation-states over the last 150 years and why. Ultimately, we will attempt to understand something about how human organizations deal with power and peace and stability and poverty and money and the restraining and avoiding of wars and facing evil and the whole polyphonic mess of the human experience.

NU Course Equivalent: POLS 1155, Comparative Politics.

Introduction to Sociology

This course will introduce students to the basic concepts and practices of the study of society. Students will learn central ideas such as socialization, culture, stratification, institutions, work organization, gender, ethnicity, race and globalization. They will also learn about how sociologists practice their craft reading about studies of current social issues - inequality, changes in family life, social movements and others - and by carrying out small scale out-of-class research assignments.

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

Introduction to Theatrical Performance

During this course students will learn to: collaborate creatively; employ basic acting techniques such as sensory work, the principles of action, objectives, status, etc.; develop an expressive speaking voice; engage with a variety of stage props; analyze the process of placing a dramatic text on stage; critique and enact a variety of theatrical techniques; define specific terms relating to the study of drama and theater; develop an appreciation for theater as an art form and a reflection of society; understand the responsibility of an actor’s work ethic, especially to one’s fellow actors; initiate and upkeep a gradable class-by-class journal (either blog or v-log) of their personal growth throughout the course.

NU Course Equivalent: THTR 1101, Introduction to Theatre. NUPath: EI, IC.

N.U.in Italy -- *continued*

Introduction to Visual Communication

From photojournalism to Instagram, 21st century communication is primarily image-based. Whether its mass media, individual expression, social media or alternative media, images are used for promoting ideas, products, information and political discourses. In this course students investigate the role of visual culture in daily life, exploring fine art, popular culture, film, television, advertising, business communications, propaganda, viral social media and information graphics. As a critical introduction to visual communication, this course mixes theory, analysis and practical activities for an applied understanding of key issues, including the relationship between images, power and politics; the historical practice of looking; visual media analysis; spectatorship; historic evolution of visual codes; impact of visual technologies; media literacy; information graphics literacy; and global visual culture.

NU Course Equivalent: COMM 1990, Communication Studies Elective.

Introductory Italian I

This course is designed to give students basic communicative ability in Italian. By presenting the language in a variety of authentic contexts, the course also seeks to provide an introduction to Italian culture and society. Students work on all four language skills: speaking, listening comprehension, reading, and writing.

NU Course Equivalent: ITLN 1990, Italian Elective.

Italian Cinema

This course surveys films, directors, and film movements and styles in Italy from 1945 to the present. The films are examined as complex aesthetic and signifying systems with wider social and cultural relationships to post-war Italy. The role of Italian cinema as participating in the reconstitution and maintenance of post-War Italian culture and as a tool of historiographic inquiry is also investigated. Realism, modernism and post-modernism are discussed in relation to Italian cinema in particular and Italian society in general. Films are shown in the original Italian version with English subtitles. Realist, modernist and post-modernist aesthetics will be discussed in relation to Italian cinema, in particular, and Italian society, more in general. Directors to be treated include (but are not limited to) DeSica, Rossellini, Fellini, Pasolini, Monicelli, Petri, Bertolucci, Bellocchio, and Sorrentino.

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

Media, Culture, and Society

This course explores the impact of mass communications on society and culture. Doing so means examining the relationship between media and democracy, and probing deeply how we as audiences and participants negotiate media in our lives. We examine how symbols and communication strategies vary in the context of different media forms, from books to television, and from the Internet to cell phones. We examine institutional pressures and filters that impact and frame media flows, including the influence of governments, corporations and citizen activists. Some important themes include the difference between information and entertainment (and when they converge as infotainment); the impact of convergence media; the coding of race, gender and others social and cultural groups; the impact ("effects") of media on audiences; and the relationship between media and globalization. Ultimately, we'll seek to understand what constitutes authentic and inauthentic communications and how that impacts our lives directly.

NU Course Equivalent: MSCR 1220, Media, Culture, and Society. NUpath: IC, SI.

Principles of Microeconomics

The purpose of this course is to provide a basic understanding of Microeconomics the entire Economics discipline is based upon. This course will equip students with a basic economic knowledge valuable for any career students may elect to pursue. In addition, the goal of this course is that students develop basic knowledge and, above all, analytical skills. Students will be able to: Use basic economic tools when making decisions and interpreting facts and events; critically assess the economic consequences of economic policy and business strategies. Students will learn how to use and apply economic tools analytically. In particular, the fundamental tools of demand and supply. They will be employed not only to understand current economic outcomes, but also to predict future economic effects of current shocks to the economy.

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

N.U.in Italy -- continued

Public Speaking: Oral Rhetoric and Persuasion

This course provides an introduction to the fundamentals of rhetoric and how they are applied in oral communication, and how these principles and concepts lead to effective public speaking. Students will learn how to prepare and organize persuasive speeches by learning the fundamental structures of the persuasive speech. In addition, students will begin to acquire basic skills in critical reasoning, including how to structure a thesis statement and support through a specific line of reasoning using idea subordination, coordination, and parallel structure.

NU Course Equivalent: COMM 1112, Public Speaking. NUpath: EI.

Statistics I

An introduction to descriptive statistics, elementary probability theory and inferential statistics. Included are: mean, median, mode and standard deviation; probability distributions, binomial probabilities and the normal distribution; problems of estimation; hypothesis testing, and an introduction to simple linear regression. Following a brief introduction to the subject, both graphical and numerical techniques for representing data sets will be analyzed. Probability theory is discussed, using both discrete and continuous probability distribution, before moving on to analyze sampling distributions, point estimators and confidence intervals. The course then progresses to look at hypothesis tests, covering tests of the mean, proportion and variance, as well as the difference between these parameters, and Chi-squared goodness of fit tests. There will also be an introduction to simple linear regression.

NU Course Equivalent: MGSC 2301, Business Statistics, NUpath: AD.

World Art I: Visual Culture from the Stone Age to Late Antiquity

This survey course focuses on the art, archaeology and architecture of the Mediterranean world, roughly between 2500 BC – AD 300. The course investigates the material culture of the diverse cultural groups that shaped this cosmopolitan world: Sumerians, Assyrians, Minoans/Mycenaeans, Egyptians, Greeks, Etruscans, Persians, Italics and Romans. Special attention will be given to the interconnectivity and dynamic relationship of inspiration between these cultures. The aim is for a firm contextual understanding of the works examined, and of the cultural, political and historical aspects that shaped these. The course will also assist students in cultivating basic art-historical skills, in particular description, stylistic analysis, and iconographic and iconological analysis.

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

World Art III: Visual Culture of the Early Modern World

This survey course focuses on the art and architecture of Europe, South and Southeast Asia, China, Japan, and the Americas from the late 1200s to c. AD 1750. The course investigates a range of media including painting, woodcuts, sculpture, and architecture, while considering materials and methods of production. Special attention will be given to the socio-economic and political contexts in which these artifacts were commissioned and produced. The course will also assist students in cultivating basic art-historical skills, in particular description, stylistic analysis, and iconographic and iconological analysis.

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

World Art IV: Visual Culture of the Modern and Contemporary World

This survey course focuses on the art of Europe, Africa, the Americas, and Oceania from the 1700s to the present. The course investigates all media, including photography, and considers the impact of globalization and new technologies on contemporary art and evidence of cross-cultural influences. Special attention will be given to the new aesthetic languages, traditional cultural sources, and philosophical background of contemporary art, as well as to the broader cultural-historical contexts of their creation. It will also assist students in cultivating basic art-historical skills, in particular description, stylistic analysis, and iconographic and iconological analysis.

NU Course Equivalent: ARTH 2210, Modern Art & Design History. NUpath: IC, SI.

N.U.in Italy -- continued

World Politics

This course discusses the main schools of world politics as well as actors, structures and institutions of international relations. Through this framework the course explores key conflicts and issues in the post-World War II era, including problems of war, armed conflict, and peace, and the impact of recent trends in globalization on world politics. The course is divided into four parts that will provide us with a rounded up introduction to the study of world politics. In the first part we will have a brief introduction into the “international” and explore some of the ways of looking at the assumptions underpinning our understanding of world politics. In the second part we will learn about the most important theories and approaches that have dominated the history of International Relations (both theory and practice), and we will also venture to study a few innovative and exciting current developments in the discipline. In part three we will survey key touchstones in the history of world politics, history being after all our working material as future informed citizens and experts of world politics. In the last part, we will be looking at some of the most important developments, themes and events in world politics, such as globalization, terrorism, the recurrence of revolutions, the United Nations, and the future of international relations (among others).

NU Course Equivalent: POLS 1160: International Relations. NUpath: SI.