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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

## NU Bound - England

### 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 with broader dynamics of globalization, migration, positionality, power, and privilege.

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

### 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. NUpath: WI.*

### Britain and the World: Interaction and Empire

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

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

### British Drama and the London Stage

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

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

### Calculus for Business

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

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

**CRIMINAL JUSTICE THEMATIC COURSE – TBD**

One of the following Current Topics requirements will be offered:

- Human Trafficking
- Corruption, Integrity, and Accountability
- Crime, Media, and Politics

**Criminology**

Describes the nature and extent of crime, explains its causes, and examines the reasons for and effectiveness of society's responses to it. Defines the topic of criminology by discussing the different types of crime. Moreover, to establish the extent of crime in society, measurement issues are addressed. The second half of the course details different theories of criminal causation.

*NU Course Equivalent: CRIM 1120, Criminology. NUpath: SI.*

**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.*

**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 Equivalent: POLS/SOCL 2358, Current Issues in Cities and Suburbs. NUpath: SI, 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.*

**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 Equivalent: PSYC 3404, Development Psychology.*

*Prerequisite: PSYC 1101, Foundations of Psychology.*

**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.*

**Financial Accounting and Reporting**

Covers the basic concepts underlying financial statements and the accounting principles followed in the preparation of the balance sheet, the income statement, and the statement of cash flows. Offers students an opportunity to become familiar with accounting terminology and methods designed to enable them to interpret, analyze, and evaluate published corporate financial reports. Wherever appropriate, the course relates current economic, business, and global events to accounting issues. Analyzes how financial reporting concepts affect the behavior of investors, creditors, and other external users. Emphasizes the importance of ethics in financial reporting. Requires second-semester-freshman standing or above.

*NU Course Equivalent: ACCT 1201, Financial Accounting and Reporting.*

**Foundations of Psychology**

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

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

**Fundamentals of Computer Science with Lab**

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

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

**Global and Intercultural Communication**

Focuses on theories of and approaches to the study of intercultural communication. Emphasizes the importance of being able to negotiate cultural differences and of understanding intercultural contact in societies and institutions. Stresses the benefits and complexities of cultural diversity in global, local, and organizational contexts.

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

**Global Markets and Local Culture**

Examines selected topics in the socioeconomic transformation of other cultures, including urbanization, industrialization, globalization, commodity production, and international labor migration. Focuses on the impact of global capitalist development on contemporary developing and postcolonial societies as well as local responses and/or resistances to those changes.

*NU Course Equivalent: ANTH 2305, Global Markets and Local Culture. NUPath: IC.*

**Intermediate Programming with Data with Lab**

Offers intermediate to advanced Python programming for data science. Covers object-oriented design patterns using Python, including encapsulation, composition, and inheritance. Advanced programming skills cover software architecture, recursion, profiling, unit testing and debugging, lineage and data provenance, using advanced integrated development environments, and software control systems. Uses case studies to survey key concepts in data science with an emphasis on machine-learning (classification, clustering, deep learning); data visualization; and natural language processing. Additional assigned readings survey topics in ethics, model bias, and data privacy pertinent to today's big data world. Offers students an opportunity to prepare for more advanced courses in data science and to enable practical contributions to software development and data science projects in a commercial setting.

*NU Course Equivalent: DS 2500/2501, Intermediate Programming with Data with Lab. NUpath: AD.*

*Prerequisite: DS 2000 OR CS 2500 (may substitute for DS 2000).*

**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**

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.*

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

**Peoples and Cultures**

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

*NU Course Equivalent: ANTH 1101, Peoples and Cultures. NUpath: IC.*

**Principles of Macroeconomics**

The course 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. The objective of the course is to familiarize students with basic concepts and conclusions in macroeconomics. Students should understand the intuition behind the conclusions and be able to interpret real world developments in light of economic theory.

*NU Course Equivalent: ECON 1115, Principles of Macroeconomics. NUpath: SI, AD.*

**Principles of Microeconomics**

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

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

**Principles of Organizational Communication**

Surveys the communication process in complex organizations. Topics include the evolution of organizational communication, communication networks, information management, and communication climate. Analyzes case studies and teaches how to improve the quality of communication in an organization.

*NU Course Equivalent: COMM1231, Principles of Organizational Communication. NUPath: IC*

**Programming with Data**

Introduces programming for data and information science through case studies in business, sports, education, social science, economics, and the natural world. Presents key concepts in programming, data structures, and data analysis through Python and Excel. Integrates the use of data analytics libraries and tools. Surveys techniques for acquiring and programmatically integrating data from different sources. Explains the data analytics pipeline and how to apply programming at each stage. Discusses the programmatic retrieval of data from application programming interfaces (APIs) and from databases. Introduces predictive analytics for forecasting and classification. Demonstrates the limitations of statistical techniques.

*NU Course Equivalent: DS2000/2001, Programming with Data with Practicum. NUpath: AD.*

**Statistics**

This is an introductory level course for those who wish to use statistics in social science, or in any other context. The course provides a precise and accurate treatment of introductory probability theory, statistical ideas, methods and techniques. The course also enables the students to start on their journey to being able to appreciate empirical literature in the field of Economics. This course is intended to prepare students for the use of statistics in their more advanced empirical courses (particularly Econometrics and Applied Economics) and accustom students to using statistical methods in their studies.

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

**Technology and Human Values**

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

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

**The World Since 1945**

Examines the political, economic, social, and cultural relationship between the developed and developing world since the end of World War II. Topics include the Cold War, independence and national movements in developing countries, the globalization of the world economy, scientific and technological innovations, wealth and poverty, the eradication of some diseases and the spread of others, the fall of the Soviet Union, Middle East turmoil, and the enduring conflict between Israel and Palestine.

*NU Course Equivalent: HIST 2211, The World Since 1945. NUpath: SI, DD.*

**The Writer's Craft**

This course introduces students to the underlying concepts and principles of the creative writing process, and of the craft of writing creatively in three principal literary forms: poetry, prose fiction and script writing (for the stage). The course foregrounds the importance of reading to the creative writing process.

*NU Course Equivalent: ENGL 2700, Creative Writing. NUpath: EI.*