**N.U.in Greece Course Descriptions**

**The Global Experience**
This course is an introduction to living and learning abroad. The main aim of this course is to help students prepare for, gain from and reflect upon their term abroad as a profound global experience. Through workshops, seminars, course readings, discussions, and local civic engagement, the course will challenge students to become global citizens and ambassadors by actively participating in their own learning, local team and community as well the greater study abroad community, Northeastern, and beyond. Ongoing, online reflection will help students to articulate their own experiences, respond to others’ experiences and ultimately make connections between global experiences around the world.

**Anatomy and Physiology I**
This course will cover 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.

**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.

**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.

**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.

**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.

**General Chemistry with Lab**
This course offers development of the fundamental principles of chemistry and their applications. Topics include matter, stoichiometry, gas laws, thermochemistry, quantum theory, atomic structure, electronic configurations, bonding, and intermolecular forces.

**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.

**Introduction to 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.
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 an 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.

Issues in Disciplines
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.

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.

Principles of Biology with Lab
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 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, and gene function and expression/control.

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.

Sociology
This course will critically examine an array of social issues and problems through the lens of sociology. Focus will be on interrogating systems of power, privilege, and deprivation which generate a range of social inequalities within the framework of class, race, ethnicity, gender, and sexuality. Students, besides investigating structural forces at play within society, will also scrutinize the role of the individual, the impact of political ideologies, and a range of theoretical perspectives, in order to better understand the dynamics of contemporary social problems at the local, regional, global levels.

Statistics I
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.

Thessaloniki: A City and Its Inhabitants
Throughout its long 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 such important cultural sites as the Archeological Museum, the Museum of Byzantine culture, the Jewish Museum of Thessaloniki, Roman antiquities, and Ottoman buildings.
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.

University Physics I with Lab
This course is designed to introduce students to the fundamental principles of mechanics. Topics to be covered include dynamics, work, kinetic and potential energy, systems of particles, momentum, collisions, rotation, torque and angular momentum, and statics. As far as specific systems and force laws, we will look at fluids, oscillations, and gravity.