AMERICAN COLLEGE OF THESSALONIKI – SPRING II 2025 COURSE OFFERINGS*

The American College of Thessaloniki plans to offer a wide array of courses from the Divisions of Business, Humanities & Social Sciences, and Technology & Science for the Spring II 2025 term. For those students in the Study Abroad Program, prerequisite requirements can be waived if comparable completed coursework at their home institution can be demonstrated.

*Please note that ACT reserves the right to cancel a class due to low enrollment and will work to provide appropriate alternatives for those students impacted by any changes in course offerings.

DIVISION OF BUSINESS

Business 399: Global Competitiveness Practicum
*The course is designed to give students an opportunity to leverage their existing business skills, as well as, develop new ones in an exciting and team cooperative environment. ACT faculty select a number of local businesses and the students work on consulting assignments for them. GCP faculty assign students to teams, each consisting of generally two ACT and two Ohio University students. Each team is given a different business project and is charged with developing and implementing an approach for completing it in a fashion that satisfies its client and meets the course objectives. *It should be noted that this course is a special summer course offered only to regular ACT and Ohio University students. (3 credits)*

Economics 101: Introductory Macroeconomics
An introduction to modern economic analysis and its policy implications. The course centers on the applications of economic theory to national policy problems such as growth, inflation, unemployment, government expenditures and taxation, and the role of money. In addition, it provides a broad introduction to the understanding of the modern national socioeconomic systems in today's globalized economies. (3 credits)

Economics 102: Introductory Microeconomics
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. (3 credits)

Management 201: Organizational Behavior
The behavior of individuals and groups within the organizational context is presented and analyzed. Different forms of organizational behavior are considered, providing students with exposure to various models. Topics covered include the context of organizational behavior, organizational culture, understanding individual behavior, personality-perception attitudes, job satisfaction, job stress, motivation and learning, interpersonal behavior and dynamics, leadership, power and politics. (3 credits)

Management 312: Operations Management
The course provides an overview of concepts, methodologies and applications of production and operations management. Topics include productivity, forecasting demand, location and capacity planning, inventory control, project management, operations scheduling, just-in-time systems, quality control, total quality management. (3 credits)

Management 341: Business in Greece and the EU
The aim of the course is to give students in-depth insights into the complexities of the European environment from a global, business, economic, political, and legal perspective. The course also analyzes the various ways in which the European Union institutions influence a company working in or with Europe, with specific emphasis placed on doing business in Greece.(3 credits)

Marketing 101: Introduction to Marketing
The objectives of this course are to introduce the basic marketing concepts, to present the practical use of marketing in modern corporations, to provide students with the elements of market thinking in solving business problems and to prepare them for working in the competitive and dynamic field of marketing. Topics covered include the macro and micro role of marketing, market segmentation, basic principles of marketing research, demographic and behavioral dimensions of consumers, marketing mix, product analysis, product strategies, new product development, distribution channels, pricing policies, introduction to promotion and advertising, and marketing plan construction. The course is enriched with supplementary up-to-date articles, real-world cases, video projections, and marketing simulation. (3 credits)

Marketing 303: Tourism e-business
Advances in technology have greatly influenced and shaped modern tourism operations. IT systems offer flexible, online and, above all, affordable, solutions for everyone, from single individuals to large companies. What is more important, online systems are used not only by industry professionals but by customers too; it is a given fact that a growing majority of tourists around the world use the internet to research, examine and select their next travel. As a result, it has become absolutely necessary that a professional of any position in tourism should be able to manage and run such platforms on a daily basis. There are hundreds of innovative and versatile platforms available for travel services, covering the needs of various segments, such as destination management companies, travel agencies, tour operators, hotels and hotel chains, tourist transfers and buses, excursions and package organizers etc. During this course participants will be introduced to the basic characteristics of various e-business concepts, as well as industry specific software, such as hotel booking, airline reservations, events registrations, as well as operational software covering areas of accounting, HR, logistics and dining services. (3 credits)

DIVISION OF HUMANITIES & SOCIAL SCIENCES

Communication 270 Digital Content and Storytelling
This course explores the world of online content and storytelling through a variety of digital and social media. Students gain insight into the uses and strengths of each medium –from Facebook and TikTok to blogs and podcasts-, as they learn to convey their messages through appropriate channels. Using selected case studies and best practices and via hands-on workshops, they will work together to identify common mistakes made in the digital world today, while realizing the endless possibilities it offers in order for them to reach their audience in the most impactful way. Applying the rules of storytelling, students will familiarize themselves with developing content for the various platforms and realizing the potential each piece of content holds. (3 credits)

English 102: Composition II
This course builds upon the expository writing skills presented in Eng 101. First, it introduces students to the mode of argumentation by analyzing various types of arguments and presenting the essential tactics used in definition, cause, evaluation, refutation and proposal. At the same time, it introduces students to research paper writing by guiding them step-by-step in the process of forming an argumentative thesis, incorporating sources together with their own thinking into papers, and documenting sources. (3 credits)

English 203: Advanced College English Skills
This course aims to enhance academic skills in listening, speaking, reading and writing as well as develop significant critical thinking and research skills essential in an academic community and beyond. Texts on contemporary issues from various disciplines including newspaper articles, autobiographies, essays and peer reviewed journal articles will be examined. Close reading of texts will be the basis for discussions, debates, exercises and written assignments. Podcasts, blogs and short videos will also be used to practice Academic English skills. Themes and skill areas are selected to complement and enrich the learning experience of students of all fields (3 credits).

English 204: Business/Professional Communication
The course instructs students in all aspects of professional communication including writing, reading, speaking and listening. It offers business and computer science students in particular opportunities for vocabulary enrichment and structural improvement specific to their own professional communication. Through the use of a variety of different teaching and learning methods the course gives students the opportunity to practice and improve their overall use of professional communication skills, both orally and in writing. The overall aim of the course is to enable students to realize their full potential in terms of the sophistication, relevance and fluency of their professional communication skills. (3 credits)

English 210 Creative Writing
This course aims to introduce students from all majors to the field of creative writing. "Creative Writing" consists of three parts: an introduction to the practice of poetry, an introduction to the practice of fiction writing and an introduction to writing for commercial purposes (business, marketing, etc.). In these three parts respectively, students will be introduced to and will practice basic forms of poetry, narrative techniques, the art of storytelling, and they will engage in projects applying basic rules of copywriting and producing writing to order. The course will be interactive in the form of workshops including writing sessions, discussions, lectures and self-reflection. (3 credits)

English 299 Teaching Approaches and Methods: Past and Present
This course explores the past and current theories of language teaching methodology. Students gain an insight into the major and minor trends in twentieth-century language teaching as well as investigating alternative approaches and methods. It aims to clarify the relationship between approach, design and procedure, and present a model for the description, analysis, and comparison of methods. Further investigation is carried out for each method in terms of analyzing its underlying theoretical approach, the specific design features associated with each method and finally the procedures which are linked with each method including classroom techniques and practices. Additionally, current communicative approaches are examined along with the post-methods era. (3 credits)

English 300: Image/Text/Culture
This interdisciplinary course examines the images and texts of film, television, art, photography and advertising (with a strong emphasis on film), and how they come to characterize our everyday lives. Using case studies, students learn how to recognize, read, and analyze culture within a particular social, cultural, or political context, touching upon such important issues as race, gender, class, ideology, and censorship.(3 credits)

English 380: The Business of Literature
The course will introduce students to the 20th century mechanics of literary production and to the forces making a book available, promoting it to a best seller, or silencing it. More specifically, it will study the changing market conditions for literature, both in a historical perspective and on the basis of selected case-studies. Students will discuss literature within a social and business frame and approach literary production in particular as a revealing cultural phenomenon and a symptom of a given socioeconomic reality. In doing so, students will sharpen their intellectual and critical skills and become alert to the interdependence of two fields which are traditionally considered separately. In addition, they will address and challenge underpinning canonical practices and biases.(3 credits)

History 120: The Modern World
This course takes its point of departure in late eighteenth-century Europe during the period of the Enlightenment and the French Revolution, and concludes in the late twentieth century with the end of the Cold War and the immediate post-Cold War decade. Course materials integrate social, cultural, political, and economic approaches, as well as aspects of historiographical analysis, in order to facilitate study of both the foundations of the contemporary world and questions relating to historical representation. The course also provides coverage of significant global developments in the modern era. (3 credits)

Politics 202: Political Theory
The purpose of this course is to introduce students to political ideas and their different interpretations in modern times. The course will also focus on various key themes and concepts, such as freedom, justice, rights, and sovereignty, and on classic modern schools of political thought. Emphasis will be given to expositions of theory in its historical, social, economic and political context (3 credits).

Politics 333: Diplomacy
This course considers the overlapping disciplines of diplomacy, negotiation, and conflict resolution. The course begins with an overview of the historical evolution of contemporary diplomatic relations. The students are introduced to different types of international negotiations. The final segment of the course reviews case studies in complex multiparty conflict resolution. Student evaluation will be based in part on participation in a practical simulation (3 credits).

Philosophy 203: Ethics
This course is designed to help students develop their critical abilities through the analysis of ethical problems and to introduce them to contemporary ethical theory. Following an introduction to the structure of ethical problems, three classical approaches to the problem of justification are presented: moral obligation (Kant), the consequences of one's actions (Utilitarianism), and personal virtue (Aristotle), respectively. The course also includes discussions of meta-ethical issues concerning the relation between fact and value and the problem of justifying and then generalizing one's ethical judgments including the issue of moral relativism. (3 credits)

Psychology 121: Developmental Psychology II
This course will focus on research and applications in the field of human development. Human development is the study of how people change and remain the same across the lifespan. The aim is to provide a review of the progression through the initial developmental stages (prenatal development and early years) that was taught to the students in Developmental I and to further expand their knowledge of understanding on human development from school years through adulthood. Areas such as biological, motor, cognitive, emotional, and social domains will be covered and these processes will be described within a theoretical and empirical framework. (3 credits)

Psychology 170: Personal Development & Employability
The aim of this course is to improve awareness of career pathways and to improve students' abilities to reflect on, and present, the skills, attributes and experience gained from an academic degree and how this can support them achieve graduate employment. Students will develop their self-awareness and gain an enhanced understanding of what motivates them in the workplace. Students will learn about options available to psychology graduates and other majors and approaches to independently researching career possibilities. Students will also build their appreciation of how to navigate the graduate recruitment process, gaining practical experience of how to market themselves in written applications and in interviews. (3 credits)

Psychology 215: Positive Psychology
This course will provide students with the opportunity to learn about Positive Psychology and study how humans prosper at the face of adversity. Students will be introduced to contemporary science-based methods for enhancing the well-being, happiness and positive aspects of human experience. Various findings related to positive states such as happiness, creativity, well-being, optimism, resilience, altruism are discussed and their implications in real life are examined. (3 credits)

Psychology 250: Psychopharmacology
This is a course which covers the basic principles of psychopharmacology. The module investigates the questions of what drugs are and how they influence psychological phenomena. Diverse types of drug use and abuse are explored. The course addresses questions on how and why drugs are used for treatment for psychopathological conditions, which are the mechanisms of addiction, what is tolerance and abuse. It also addresses the main and side effects of psychoactive drugs and how these are associated with effects on perception, emotion and behavior. (3 credits)

Psychology 255: Sports Psychology
During this course students are given the opportunity to further their knowledge of how individuals behave in sport and exercise as well as behavior patterns in sports and exercise settings. The course aims to introduce students to the study of people and their behavior in exercise contexts and provide an overview of the history, current status and future directions of this ever-growing field of study. Students shall identify and be able to critically apply principles and guidelines to enhance performance, help adults and children benefit from sport and exercises and cope with stress, anxiety, and arousal issues. (3 credits)

Psychology 303: Educational Psychology: Inclusive & Special Education
This course aims to provide students with an understanding of a range of issues where psychological concepts, theories and methods have been applied in an educational context. We will look both at research in educational psychology and the educational policies that this research informs. Issues of relevance along the different tiers of education will be considered. The nature of early education will be addressed as well, with policy and research concerning contemporary debates such as the significance of play; the concept of learning readiness and the age at which children should begin formal education. Pre- school interventions and a range of special needs/developmental disorders & interventions will also be explored. The nature of early education will be addressed as well, with policy and research concerning contemporary debates such as the significance of play; the concept of learning readiness and the age at which children should begin formal education. Pre-school interventions and a range of special needs/developmental disorders and interventions will also be explored, emphasizing to the concept of inclusive education. (3 credits)

Psychology 320: Dialectical therapy
The aim of the course is to introduce the fundamental concepts and methods of behavioral therapy and to provide a basic introduction to DBT formulation, and treatment planning. The course also provides an overview of behavioral techniques and will familiarize students with the general theoretical context, as well as the main therapeutic principles within each theoretical approach. It will also consider the applications and empirical based evidence for the success of each approach and is designed to explore how certain approaches in psychotherapy can be employed to provide an insight into mental health problems, drawing on many theories and therapeutic practices to provide a better understanding. (3 credits)

Psychology 360: Advanced Statistics for Psychologists
This is a course in which students are given the opportunity to develop an understanding of the research process and familiarize themselves with main paradigms and advanced statistical methodologies in Psychology research. Students will learn the main descriptive statistics techniques, inferential statistics technique, non – parametric tests, correlational analysis and high order (factorial) AN.O.VA statistical methods. Students will also be given the opportunity to analyze the aforementioned methods using SPSS, using psychological data examples. (3 credits)

Social Science 215: Studies in Media and Contemporary Society (formerly Politics 215)
This module aims to analyze and explore media representations, media regulation, elite-mass communication, media production in a global age, communication and media power. A comparative approach will be employed for analysis of different regional and national communications systems. A final segment of the module will examine the concept of mass society, media power and globalization. Examples and case studies will be taken from American and European sources (3 credits)

DIVISION OF TECHNOLOGY & SCIENCE

Biology 299: Inquires in Biological Sciences

This course his course is structured in order encourage students thinking about concepts in biology from a different perspective compared to what they were taught in their first semester of college. During the course, we will investigate the biology of stress responses to environmental factors, like extreme temperature, pollutants, and pathogens, examine the involved mechanisms at different levels of biological organization and discuss the effects of these exposures for an organism and a population. Many different areas related to the topic will be surveyed, including biochemistry, regulation of gene expression, metabolism, cell signaling, physiology, and population dynamics. These topics will be discussed based on the following core concepts of biology: 1. Evolution, 2. Structure and Function, 3. Information flow, 4. Pathways and transformation of energy, 5. Systems Biology. (4 credits)

Biology 350 (SNCB 350) Microbiology and Infectious diseases

This module emphasizes on the microbiology of infectious diseases through analysis of case studies and specific outbreak examples. The students will be able to critically discuss the virulence and pathogenicity of infectious agents (bacteria, viruses, fungi and other parasites); centered on the interplay of the host – microbe balance; using indicative case studies. Apply theoretical knowledge of identification & classification, epidemiology, pathogenicity & virulence, of infectious agents on the treatment & control of pathogens using selected examples of infectious diseases. Critically discuss the strategies available to control and treat microbial & viral diseases. (4 credits)

Computer Science 151: Quantitative Computing

The course aims at deepening student quantitative skills by interrelating mathematical modeling and spreadsheet implementation. Students are presented real-world problems encountered in the modern enterprise, with emphasis on spreadsheet computing and are taught both the mathematical background and the necessary structures for tackling the problem with spreadsheets. Emphasis is placed on mutual translation of mathematical model and spreadsheet implementation. Focus is on Business Planning and topics are drawn from Microeconomics, Finance, Marketing, Managerial and Financial Accounting. Mathematical topics covered include: Real numbers and their computer implementation, polynomial, exponential and logarithmic functions, matrices, linear programming and optimization, recursive models, discrete approximation of the derivative and integral. (3 credits)

Computer Science 190: Programming with Python

This course introduces students to programming for data and information science. Key concepts in programming, data structures, and data analysis are presented through Python. The various programming stages of a data analytics pipeline are explained and students are introduced to data analytics and visualization tools. Topics addressed include: Variables and mathematical operators, Files and Data visualization, Conditionals, Iteration (loops) and lists, Functions, 2D lists, Dictionaries, Classes & Objects, and Pandas. (3 credits)

Computer Science 201: Business Computing

The course aims at presenting Business majors with the basic computing structures needed to support a company's management. Students will be exposed to data tables from a variety of business activities as well as the database techniques necessary to model and effectively process these data for the purposes of company assessment and planning. Examples of applications residing in the WWW will be presented, analyzed and subsequently implemented by students with the database medium used in the course. (3 credits)

Computer Science 300: Mobile Applications Programming
This course focuses on the fundamentals of mobile strategy and development, application architecture and design. Students will have the opportunity to learn the benefits and challenges of mobile application planning, design, development and strategy through real world examples and actual project work. Through readings, discussions, research, and practical "hands-on" projects, students will better understand the current market for mobile applications and develop the fundamental skills necessary to enter the mobile application industry. This course aims to teach how to build cross-platform mobile solutions to solve complex problems using iOS and Android phones and tablets. The course will teach students how to develop software for iOS and Android mobile devices through real world examples and strategies. Students will be guided through a complete mobile development lifecycle during the semester, and be given the opportunity to develop a series of applications. (3 credits)

Computer Science 325: Distributed Applications
The purpose of the course is to examine in detail the software and hardware technologies prevalent in the Internet and provide an introduction to the principles and methods for creating distributed on-line client/server applications that are the basis for electronic commerce as it is conducted over the Internet. Methods and tools such as HTML, the Common Gateway Interface, PHP, database connectivity tools and MySQL are presented. Coverage is also given to emerging standards for information exchange, encryption and validation. (3 credits)

Computer Science 340: Artificial Intelligence
This course is an introduction to the field of AI and Machine Learning, including an intensive initial introduction to the Python programming language. Indicative topics include knowledge representation, decision trees and rule-based expert systems, as well as machine learning structures and algorithms for neural and evolutionary computation. The course covers the theory and practical implementation of supervised, unsupervised and reinforcement learning in artificial neural networks, as well as in evolutionary computing and genetic algorithms. Other indicative topics covered are dataset preparation for neural learning and testing, the back-propagation algorithm for synaptic weight change, pattern recognition and classification challenges using the multi-layer perceptron artificial neural network architecture, logical and probabilistic neural computation, and optimization of neural computation using genetic algorithms. All topics presented are supported by practical examples and design challenges using the Python programming language. This course serves as a prerequisite for Computer Science students who wish to undertake a capstone project involving AI and/or Machine Learning during their final year of study. (3 credits)

Computer Science 421: Computer Systems Security
This course aims at providing both a theoretical and practical background concerning issues of security in modern, networked systems. Cryptography is covered first (essentially discussions of standard algorithms). The remainder of the module focuses on techniques that can be used to safeguard real systems. Topics that are covered include Key management and credentials, Steganography and watermarking, Network security (VPNs, Firewalls, Intrusion Detection) and System Security Policies. Risk assessment and threat models as well as social engineering will be covered. (3 credits)

Computer Science 450: System Analysis and Design technology & science
The module introduces the waterfall model for system/application development and the formal tools employed in its various stages. The objectives of the module are to: • Provide formal tools for functional and non-functional requirements collection and documentation (ERD, UML, DFD, STD's) • Define the role of the systems analyst and designer. • Build project management and interpersonal communication skills that the system analyst must have. • Explain the methodologies that are used for systems analysis and design. • Follow through the waterfall model (and discuss deviations therefrom), presenting the relevant tools at each stage. • Provide the problem solving background for resolving trade-offs inherent in design. • Present principles of quality and correctness testing. • Provide students the opportunity to work as a team of analysts and designers in a project to implement the taught methodologies. Students develop technical, analytical and business skills that support the pursuit of professional careers and advanced computer science studies. (3 credits)

Ecology 110: 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. Each discussion is organized around two or four major concepts to present the student with a manageable and memorable synthesis of the lecture and it is supported by case histories that provide evidence for the concept and introduce students to the research approaches used in the various areas of ecology. Special emphasis to local environmental problems countries face and the approaches they use in solving these problems. Laboratory included. (4 credits)

Mathematics 101: Elements of Finite Mathematics
This course places an emphasis on the role of functions (coordinate systems, properties, graphs and applications of polynomial, rational, logarithmic and exponential functions), solving systems of linear equations, matrix operations, mathematics of finance, and introductory counting techniques. (3 credits)

Mathematics 115: 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. Emphasis is placed on applications and problem solving through conventional and computer methods. (3 credits)

Philosophy 310: Bio Ethics
This is a required course for all Biological Sciences majors. It is structured to encourage students to consider the values and ethical principles relevant to life and to the application of biomedical technology for the maintenance, extension, and even production of life. The module will provide students with an understanding of core terms, concepts, and decision-making procedures used to discern and defend moral issues mainly related to life's beginning and life's end. The module has two principal aims. First, it considers some of the mainstream Western approaches to moral philosophy, including the ones of Aristotle, Rousseau, and Kant. Second and mainly, it seeks to apply these theories and others to contemporary biomedical sciences. The students will be exposed to some of the most challenging topics in the field, which include: personal autonomy, privacy, confidentiality & medical records, the right to refuse treatment, ethics of research on animals and humans, and philosophical and religious dimensions of life (abortion, assisted reproduction, disability, transplantation, euthanasia, etc.) Finally, the students will develop the ability to identify world views that give rise to moral norms and values. (3 credits)

Physics 120: University Physics I, for Science & Engineering
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, Statics. As far as specific Systems and Force Laws we will look at Fluids, Oscillations, and Gravity. (4 credits)

Sea Sail 101: Introduction to Sea Sailing
The aim of this course is to provide the basic yachting skills so that successful students will be safety conscious, have a basic knowledge of sailing and be capable of taking a yacht out without an Instructor on board in light to medium winds in protected waters. The course has both theoretical (In-Class) and practical (On-Board) components; with the latter being the largest part of the course. (3 credits) Sea Sail 201: Introduction to Racing Sea Sailing This course is aimed at those students who aim at something more intense, vigorous and demanding than a simple cruise, and certainly for all those thrilled by the adrenaline kick once in control of the elements, the sea and the wind! The syllabus involves hours of practice in boat handling, trimming, racing rules and race tactics. All crews participate in the local Sailing Championship of Thessaloniki while also given the opportunity to further participate in significant racing events during the summer such as the Aegean Regatta, The Aegean Rally, The Greek National Offshore Championship and the North Aegean International Sailing Week Cup (3 credits)

Statistics 201: 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 collection and analysis, basic frequency distributions, correlation, central tendency and variation, basic probability principles, sampling distribution and statistical inference. Students will be exposed to these topics and will examine how each applies to and can be used in real life applications. Students will master problem solving using both manual computations and statistical software. The course will be balanced between classic text-oriented resources and relevant computer software. It intends to help students develop their critical thinking and problem solving ability. Students are expected to have read attendance. Upon completion of this course, it is the aim and hope of the mathematics faculty that students who work hard and apply themselves will be able to: 1. Acquire solid statistical skills necessary to meet the needs of the real-world decision-making problems. 2. Effectively communicate the results of a statistical analysis both orally and in writing. 3. Gain fundamental statistical knowledge and skills required for a higher-level module in related fields. 4. Encourage modeling and connecting Mathematics to various disciplines.

Statistics 210/211: Introductory Statistics with R

This module is an application-oriented introduction to modern descriptive and inferential statistics using R statistical software. Students are first exposed to the basics of the R software including writing scripts and data manipulation. Then, a variety of statistical topics are discussed: study design, descriptive statistics, data visualisation, random variables, probability and sampling distributions, point and interval estimates, hypothesis tests, and linear regression. Various real-world datasets are used for the application of the techniques learnt. (3 credits)