AMERICAN COLLEGE OF THESSALONIKI – SPRING II 2023 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 2023 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 323: Business Strategy II (Capstone Project)
This course is designed to synthesize the knowledge and skills developed in previous business courses and apply them to the research project. Students learn about all aspects of the process of developing and carrying out their business strategy research project, and gain an understanding of standards and expectations that students need to meet to be successful in completing their research. Typically, there are no classroom sessions throughout the course. However, in order to make substantial progress, it is essential that students set and meet aggressive goals and meet regularly with their coordinator to ensure the research project is progressing in a focused and high quality manner. Lastly this research project should prove the student’s independent ability to investigate and develop an issue within the field of business strategy. (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 301: Entrepreneurial and Corporate Marketing Strategy
An advanced marketing course that offers in-depth examination and analysis of the basic marketing principles gained in Marketing 101: Introduction to marketing. Students are taught what is being confronted in a marketing department and what the alternative procedures for carrying out various marketing projects are. A considerable effort is made to provide students with the elements of marketing thinking in structuring marketing strategies for various corporations. Supporting students’ ability to think, express themselves, write, speak and argue in marketing terms also constitutes one of the main course objectives. Finally, students are prepared to work in the competitive and dynamic field of marketing and to become professionals with a global perspective. Case analysis and class discussions of current issues are among the important educational and learning tools used. (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

Art 120: Art Appreciation: Principles of Design
The purpose of this course is to introduce students to the general principles of design, that is, to the formal elements in any work of visual art (painting, sculpture, photography, film, contemporary installation art, etc.). The course will be thematic and topical, and will consider examples from all periods of Western and non-Western Art. Included in the formal coursework will be visits to local museums and galleries to examine firsthand artworks illustrating the different principles studied. (3 credits)

Communication 217: Media in Transition
The course offers an overview of the historical development of media as industrial and cultural institutions, as well as the ethical and legal framework of their operation. Covering both print (newspapers, magazines, books) and audio/visual media (photography, cinema, sound-recording, radio, television, internet, mobile media) the course explores how changes in communication technology interrelate with the changing roles and fortunes of media industries and media audiences/users, and pays special attention to the digital revolution and to its transformative consequences over the whole of the media/cultural industry landscape. (3 credits)

Communication 219: Introduction to Film Studies
The purpose of this course is to introduce students to the study of the cinematic experience from the perspective of those who create films and those who consume them. Students are expected to gain insight into all the stages of filmmaking, from developing the script, to visualizing their stories, organizing and executing the film production, and editing their images and sounds into a final audiovisual product, while discussing abstract questions of history, philosophy, and art. In order to complete their introduction to psychocinematics, students work with the science behind cinematic arts, and investigate the question: “Do we all “see” the same story on screen, and, if not, what makes our responses different?” (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 250: Advanced Writing & Professional Communication
The purpose of this course is to provide instruction and practice in the skills and strategies necessary to produce effective written and oral communication in any professional context. The course addresses topics such as persuasive writing techniques, formal professional communication (including executive summaries, legal documentation, letters and reports) as well as intercultural communication, professional writing in the ‘e-world’ and advanced public communication writing & speaking skills. The course is designed to foster skills development in the areas of critical thinking, presentation techniques, application of accepted professional frameworks to new ideas and use of innovative writing, with the aim of preparing students for realistic professional situations. (3 credits)

English 273: Introduction to Linguistics
The course Introduction to Linguistics gives a selective overview of linguistic studies from various branches, such as anthropological linguistics, cognitive linguistics, functional linguistics, formal linguistics, psycholinguistics, and second language acquisition. The focus is on language as a dynamic set of symbolic resources with many levels of expression: an acquired system of communication among the human species, an interactive system for expressing and creating both individual and socially constructed meanings, and an orthographic system for developing literacy. During the semester, the global, social, and personal meanings of language will be considered. (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 325: Pedagogical Foundations in Second Language Acquisition
In this course students explore the theory of second language acquisition (SLA) in general and its implications for teaching and learning in particular. The course aims to review general linguistic theory, explore aspects of morphology, phonology, semantics and syntax, theories of 1st and 2nd language acquisition, L1 interference in L2 acquisition, language universals, error analysis, language variations and disorders, sociolinguistics, bilingualism, and application of theory to second language teaching methodology. (3 credits)

English 345 English Language Teaching II
The course aims to enhance students' teaching effectiveness as well as provide further practical experience and new ideas for creative second and foreign language learning. It re-examines the traditional realms of language teaching (vocabulary/grammar/skills development) as well as provides students with an in-depth understanding of both theory and practice of teaching English as a foreign language. In addition, it offers students the opportunity to explore other teaching-related fields at an advanced level, including educational technology (CALL), teaching through literature, and the significance of the age factor in foreign language teaching, among others. (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)
European Studies 210: Foundations of European Integration
This module will expose students to the historical, political and institutional developments of the European Union. It introduces key developments, institutions and policies, examines the theoretical framework of European integration, and studies the European Union as a global actor, with specific reference to its enlargement process and external relations. (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)

History 201: Women in Modern Times
An upper-level survey which studies the evolving conditions in which women have lived and worked in the western world from ca. 1750 to the present. A variety of types of evidence, from legal documents to art and literature, will be examined. Students will also be introduced to contemporary theoretical developments in the larger field of women’s studies. (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)

Politics 232: International Organizations and Institutions
The aim of this course is to introduce students to the basic theories and concepts on international organization and to analyze the role of international organizations in the international legal order. The course begins with the historical development of international organizations, and then introduces the students to the various PS&IR and IL theories on the phenomenon of international institutional cooperation. The course then focuses on the IO’s role in the making, implementation and enforcement of international law upon nation-states and individuals, their overall impact in the international order and the question of their accountability. (3 credits)

Politics 334: Global Security Challenges and International Law
This module sets out to highlight the evolution of the concept of security (from State to human security and beyond) and the dynamism of international law and policy responses vis-à-vis a series of global threats (terrorism, threats to human health, environmental disasters, migration, financial threats). Students will be exposed to moral, legal and policy dilemmas highlighted in specific case-studies concerning global security threats and will be required to examine in depth and critically assess them. In order to fulfill these objectives, the main actors involved and the main tools employed in dealing with these threats will be presented and a series of primary sources related to the case-studies will be commented upon. (3 credits)

Politics 351: Senior Thesis
An intensive, two-semester research project guided by one or more ACT faculty. Required for all PS&IR majors. OU Level 6. Prereq: senior status and permission of advisor. (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 150 - Psychophysiology of Behavior
This is a course which will provide an overview of the principles, theory, and applications of psychophysiological assessment and students will become familiar with current psychophysiological research findings. It is concerned with the biological bases of behavior and it can offer an understanding of psychophysiological aspects of behavior, emotions, and cognition to your foundation of knowledge and skills. The aim of this course is to provide an introduction to major psychophysiological measures, and help students understand what psychophysiologists do, how they think about psychology and behavior. It will provide an introduction to theory and research in major areas of human psychophysiology with emphasis to the major methodological principles in human psychophysiology as well as to the study of behavior and psychopathology. (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 240: Forensic Psychology
This is a course which will provide students with the opportunity to learn about Forensic Psychology, a recent subfield of Psychology which emphasizes the application of research and practice in other areas of psychology (e.g., cognitive psychology, social psychology) to the legal arena. The module covers the history, basic principles and objects of study of Forensic Psychology. Some important thematic areas are introduced such as the forensic cognition (how offenders think), psychology of criminal behavior and victimology, the role of psychology in police and legal processes, assessment and treatment of offenders in forensic settings. (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 330: Psychology of immigration
This course will present demographics/diversity of immigrant populations, motivating factors for migrating, and the myths/ stereotypes around immigrants’ characteristics and behaviors. It will then discuss the psychological experience of immigration in different contexts, as well as health, psychosocial well-being and psychopathology issues that may emerge and the services that need to be provided for addressing immigrants’ diverse health, mental health and social care needs. Through this course the students will gain in depth understanding of the characteristics, experiences and needs of immigrant populations and will learn to make recommendations to improve practice and policy affecting immigrants of all ages and backgrounds. (3 credits)
Psychology 351: SENIOR THESIS II
This is the second part of a course in which the students are required to write an 8,000-word thesis. It is a fundamental component of the Psychology curriculum in which the students display their ability of formulating a research question which they research and write a detailed analysis of in 8,000 words. (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)

Sociology 101: 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. (3 credits)

DIVISION OF TECHNOLOGY & SCIENCE

Biology 112: 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, and gene function and expression/control. (4 credits)

Computer Science 101: Digital Literacy
This course serves as an introductory course to digital literacy, both on a theoretical and an experiential level, focusing on general purpose computing, networks and the internet, information and data management and social media. Under the umbrella of Computer Science, students are exposed to the fundamental principles of operating systems, humancomputer interaction, networking and communication, architecture and organization, computational science, information management, social issues and professional practice and learn to identify and exploit them for everyday organizational tasks. On a practical level, students learn how to use Operating Systems (proprietary and FOSS) and collaborative cloud-based office productivity software; how to publish and present their work using computing and mobile / smart devices and the internet; how to use web 2.0 tools for content creation and delivery (collaborative wikis, blogs, newsgroups, social media platforms); how to create and manage their personal digital identity; how to organize and process data; how to search for and critically evaluate information which is available on the world wide web and scientific literature databases; how to plan projects using modern web-based tools. They are also exposed to technical writing, collaborative informatics projects, public speaking and presenting their work within predetermined time limits. (3 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 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 207: Multimedia II
This course is the continuation of CS107. Advanced editing techniques of and digital video will be presented, studied and practiced. Basic animation techniques will be presented, studied and practiced. Individual student capstone projects on Video and animation will be assigned at the end of 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, including an intensive initial introduction to the Python programming language. Indicative AI topics include knowledge representation, problem solving via search, logical and probabilistic reasoning and machine learning algorithms such as decision trees, neural networks, reinforcement learning and genetic algorithms. (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 technology & science
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)

Mathematics 120: Calculus I for Science and Engineering
This course provides a solid foundation in Calculus concepts, tools and techniques for the student entering Science and Engineering fields. The 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. Also discusses applications of derivatives to motion, density, optimization, linear approximation, 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 the U-substitution and Integration by parts technique. The course emphasizes conceptualization, modeling, and skills. There is a concentration on multiple ways of viewing functions, on a variety of problems where more than one approach is possible, and on student activity and discussion. (3 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 course is an introduction to descriptive and inferential statistical methods. This introductory course 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 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
4. Encourage modeling and connecting Mathematics to various disciplines. (3 credits)

Statistics 205: Statistics I
This course introduces students to basic statistical concepts and techniques. Each technique is illustrated by examples, which help students to understand not only how the statistical techniques are used, but also why decision-makers need to use them. Topics covered include Frequency Distributions, Statistical Descriptions, Introduction to Probability Theory, Discrete Probability Distributions, Continuous Probability Distributions, Sampling and Sampling Distributions. Emphasis is given to problem solving with the use of statistical software. (3 credits)