



## AMERICAN COLLEGE OF THESSALONIKI – SPRING II 2026 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 2026 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 Administration 240: International Business Law**

*The aim of the course is to introduce students to business law in the international environment. The course will cover the following topics: the formation of contracts, performance and non-performance of contracts, breach of contracts, a detailed analysis of commercial supply contracts, international sales and transactions, intellectual property, as well as commercial dispute resolution. The course will also reflect on different ethical dilemmas that businesspersons face today in the global society. It will also cover issues relating to different forms of getting incorporated and labor law (3 credits)*

#### **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 202: Destination Management**

*This course offers specialized knowledge of destination management, a topic that has become even more important in contemporary tourism business. Participants will start from an introduction to destination management and the related marketing concepts and roles and will continue to in-depth issues such as destination communications and promotion, destination markets and segments, models of destination management, partnership and strategic cooperation in tourism, primary and secondary tourism offer, creation-distribution-branding of a destination, quality of the product, as well as case studies of good practice in international destination management. (3 credits)*



### **Management 303: Events Management**

*This course will provide industry-specific knowledge of events planning and running. It will offer a comprehensive overview of events management, covering all types of event destinations, venues and operations. Specific attention is paid to the analysis, management, monitoring of the economic, and tourism benefits of the events sector. Topics that will be covered include event management, planning, operations, logistics, quality management, coordination of HR, financial management and marketing of events, communications, and evaluation and impact assessment methods. Participants will also be given a wide range of event studies in order to learn from prior industry experience. (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)*

### **Management 460: Contemporary Project Management**

*Projects represent an increasing percentage of the activities of most organizations. Companies regularly use project management to achieve optimum results through the use of limited resources and under critical time constraints. Due to the continuously changing and increasingly complex environment, there are a large number of companies and individual consultants specializing in the management of projects. Nearly every organization is involved in some sort of project, such as construction, engineering, manufacturing, technology development, or telecommunications. The course will teach students the core fundamentals of project management and builds on their knowledge for effectively initiating a project and managing the project scope. It also helps students develop their skills in project management, to recognize and avoid the causes of project failure, and to manage a project from its initial stage to its completion (3 credits)*

### **Marketing 301: Entrepreneurial 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 330: Consumer Behavior**

*An analysis of consumer behavior, this module introduces students to the processes that consumers employ in order to select, purchase, use, evaluate, and dispose of products and services that will satisfy their needs. The module will also provide students with an understanding of the influences (external and internal) that determine human behavior. And since consumers vary in the ways that they consume products and services, the module will demonstrate in various ways how and why the analysis of company behavior is critical to the field of marketing.. (3 credits)*

## **DIVISION OF HUMANITIES & SOCIAL SCIENCES**

### **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)*



### **Communication 315: Intercultural Understanding and Communication**

*This course aims to introduce students to a rounded understanding of how interactions between people from different cultural backgrounds take place and the influences that affect such processes. In today's globalized world this seems to be central to our existence as increased cross-cultural contact and exchange has become the norm. Drawing on case studies from diverse social and cultural contexts, students will acquire knowledge and skills for more effective intercultural communication understanding and practices. It provides students with basic knowledge on how communication practices are patterned by culture, helping them to acquire a reflexive approach to their own cultural identity and communication styles. (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 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. It 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 practice basic forms of poetry, narrative techniques, the art of storytelling, and they will engage in projects applying basic rules of copywriting. The course will be interactive in the form of workshops including writing sessions, discussions, lectures and self-reflection. Through the course students will explore, develop and reflect upon their own writing style; practice basic forms of poetry, narrative techniques and categories in fiction; gain a basic understanding of the rules in copywriting; use different techniques of writing to produce writing to order and enhance their overall creative skills. (3 credits)*

### **English 259: Postcolonial Literature**

*The course approaches contemporary literature by Anglophone writers from different parts of the world as an index both of distinct cultures and of cultural interaction and/or imposition, examining the ways in which the repercussions of imperialism and colonisation can be traced in these works. Employing the concepts and theory of postcolonial studies and literature, students engage in close reading of selected works in order to determine how major thematic and stylistic concerns are reflective of diverse intellectual and cultural realities. As a critical reading and writing course, it will offer students the opportunity to develop a deeper awareness of the impact of social, political, economic, and cultural contexts on human creativity, types and styles of interaction, and perspectives. (3 credits)*

### **English 380: The Business of Literature**

*The course will introduce students to the contemporary 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 focus on 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 in the context of a given socioeconomic reality. In doing so, students will sharpen their intellectual and critical skills and become alert to the interdependence of various fields which are traditionally considered separately. In addition, they will address and challenge underpinning canonical practices and biases. (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 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 306: Contemporary Development Issues**

*This module explores contemporary research on international development and its various economic and social implications and aspires to enlighten students as to how development theory and practice emerges within an historical and political context. Students are given the opportunity to further their knowledge of different aspects of international development. It will also assist students in understanding the political factors of economic inequality in the developing world. (3 credits)*

### **Politics 332: Human Rights**

*This senior seminar will focus on the basic principles of human rights. Building on the foundation PS&IR students will have received from Politics 231, International Law, it will introduce students to the international and regional conventions and instruments which encode human rights. The course will cover the following issues: how human rights develop; the struggles for human rights, where these rights are encoded; and how to monitor that laws are being enforced. The course will also reflect on how international organizations reflect the values of human rights, not only in their monitoring and campaigning but also in their own practice. (3 credits)*

### **Psychology 120- Developmental Psychology I**

*The study of human development is the study of progression and change. This course is designed to introduce students to the study of developmental psychology and provide an overview of the major theories and topics in developmental psychology. The emphasis is on the pre-natal period and early childhood. However, later periods of development will be addressed in Developmental Psychology II. Theory and research will be presented in areas such as biological, motor, cognitive, emotional, and social domains from the prenatal period through early childhood. (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 205-Research methods and Statistics**

*In this course students are given the opportunity to develop an understanding of the research process and familiarize themselves with basic statistical terms and key methodologies and methods in Psychology research. In specific students learn about statistics-related concepts (populations, samples, variables). They are introduced to quantitative data analysis and in particular, descriptive statistics where they learn about identification of variables, frequency distributions, measures of central tendency and variability, normal and sampling distribution, hypothesis testing, type I and II errors, t – test for 1 sample and 2 independent samples, Pearson correlation, Chi – square independence test. It is associated with Psychology 101 and Math 101 and other modules that include introduction to research methods and statistics such as Psychology 211 (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 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 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 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 340: Psychology of addiction**

*Students are given the opportunity to develop their understanding of psychological and biological aspects of substance misuse and addiction as well as the potential treatment methods. Other non-substance addictions are also discussed such as gambling, internet addiction etc. The course aims to teach students how to assess and diagnose substance use disorders and in short to provide an overview of the psychosocial and neurobiological bases of addiction, the factors that affect addictive behavior and also how to describe and analyze appropriate therapeutic interventions (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*

### **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. May be taken as Social Sciences/ Group C GER the application of the techniques learnt. (3 credits)*

### **Social Science 215: Studies in Media and Contemporary Society**

*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)*

### **Biology 400: Senior Seminar**

*This is a seminar course that will be addressing one or more topics including: Social Medicine, Development and Differentiation, Community Health, Neuropathological Mechanisms, Immunology, Pharmaceutical Chemistry, Human Genetics, Evolutionary Medicine (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 191: Introduction to Python**

*This course introduces students to program design, emphasizing the creation of readable, well-documented, and thoroughly tested programs. Through Python, students will explore core programming concepts, including conditionals, functions, scope, iteration, and mutation. Additionally, they will gain hands-on experience with data processing libraries, file I/O, and visualization. (3 credits)*

### **Computer Science 192: Object Oriented Programming with Python**

*This course serves as a foundational programming course with a strong emphasis on object-oriented programming (OOP) and software design principles. It is designed to equip students with practical software development skills using Python, one of the most versatile and widely-used programming languages in industry. The course addresses the growing demand for programming literacy across various professional fields, from data analysis to web development and scientific computing. This course emphasizes hands-on learning through practical coding exercises and real-world problem-solving. The structure allows for extensive practice and progressive skill development, moving from basic syntax to more complex programming concepts, with a strong focus on object-oriented design and software engineering practices. (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)*

### **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 100: Mathematics for Decision-Making**

*An introduction to selected areas of mathematics in familiar settings with the objective of developing students' conceptual and problem solving skills. The course includes a study of mathematical concepts selected from graph theory, planning and scheduling techniques, statistics, probability, game theory, growth patterns, coding information, voting systems and apportionment. (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)*

### **Physics 121: University Physics II, for Science & Engineering**

*This course is the second of a two-semester sequence of college Physics courses for students in the sciences and engineering. Topics to be covered include electric fields and Coulomb's Law, Gauss' law, capacitors, resistors and DC electric circuits, magnetic fields, induction and the basic properties of electromagnetic waves. In this course, we want you to learn how to analyze mechanical systems using Newton's laws. In particular, you should learn to: Describe wave motion graphically and algebraically, apply calculus to the study of waves, identify the electric forces acting on a charge, and work with systems of charges, learn and work with the concept of the electric field for point charges and extended bodies, understand the principles Gauss' law and the work with calculus to do this, work with electric potential for systems of charges and extended bodies of charge, understand capacitance and how charge and energy are stored in such devices, understand resistance and know how to work with simple DC networks of resistors, be able to work with small combinations of resistors and capacitors (RC circuits), work with the forces on charges and current elements in magnetic fields, know how moving charges and current elements produce magnetic fields, be able to work with changing magnetic field fluxes which induce EMF's (Faraday's law), work with the inductance of a coil. (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 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)*

### **Statistics 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*