



**CATALOG**  
*of*  
**STUDY**  
**25/26**



# ACT STATEMENT OF ACCREDITATION

The American College of Thessaloniki, a division of Anatolia in Thessaloniki, Greece, is accredited by the New England Commission of Higher Education (NECHE).

Accreditation of an institution of higher education by NECHE indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer review process.

An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation. Accreditation by NECHE is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding the accreditation status by NECHE should be directed to the administrative staff of the institution. Individuals may also contact:

New England Commission of Higher Education  
3 Burlington Woods Drive, Suite 100  
Burlington, MA 01803-4514  
781-425-7785  
e-mail: [info@neche.org](mailto:info@neche.org)  
web-site: [www.neche.org](http://www.neche.org)

## **OPEN UNIVERSITY VALIDATION:**

### **Institutional Approval and Program validation by The Open University**

The American College of Thessaloniki is approved by The Open University (OU) as an appropriate organization to offer higher education programs leading to Open University validated awards.

ACT's undergraduate degree programs are currently validated by The Open University, UK. This validation further ensures that ACT's undergraduate programs meet the requirements of the European Union directive 36/2005 governing the recognition of degrees and professional rights in Greece. ACT's undergraduate students complete a single course of studies leading simultaneously to a dual degree: a US degree issued by ACT and accredited by NECHE and a European degree (validated Honors Diploma) awarded directly by the Open University, UK. ACT is the only institution of higher education in Northern Greece to enjoy such a privilege.

ACT's graduate degree programs are currently also validated by The Open University, UK.

For more information about The Open University and its validation services, including the Student's guide to studying on a program validated by The Open University, please visit <https://university.open.ac.uk/validation-partnerships/>

### **Institutional Memberships**

The American College of Thessaloniki holds institutional membership in the following organizations:

1. Association of American Colleges of Greece (AACG)
2. Association of American International Colleges and Universities (AAICU)
3. The Institute of International Education (IIE)
4. American International Consortium of Academic Libraries (AMICAL)
5. Committee for the Support of Libraries (CSL)

# ACT MISSION & VISION

## OUR MISSION

ACT provides a high quality, tertiary level, multidisciplinary, skill-based and student-centered educational experience, in an innovative and flexible learning environment that is responsive to student needs and to a diverse and inclusive student body. Drawing on the principles of the American liberal arts educational philosophy and our Greek heritage, we foster depth and breadth of knowledge, grounded on theory, scholarly research, and intellectual freedom.

Our faculty members are passionate about teaching, value close relationships with our students and strive to instill in them the desire to pursue academic and professional excellence as well as personal enrichment.

Paramount to our mission is our institution's contribution to society while cultivating students' democratic and civic awareness, enhancing a sense of individual and social responsibility, and creating a spirit of esteem for others, social institutions, and the environment.

Coupled with graduate programs that sustain and develop our strong ties with industry and community partners, we offer relevant, flexible and engaging professional training opportunities provided by field experts which enhance the participants' skills-based life-long learning.

## OUR VISION

ACT aspires to be an institution of choice for students seeking the highest levels of personal, intellectual, and professional attainment. We want to be known as a renowned international institution that contributes to a sustainable society and produces well-rounded, principled, and open-minded citizens of the world.

ACADEMIC CALENDARS	7
ACT ADMINISTRATION	9
FINANCIAL POLICIES	10
THE BISSELL LIBRARY	12
UNDERGRADUATE DEGREE REQUIREMENTS	13

ACADEMIC DIVISIONS & AREAS

DIVISION OF BUSINESS STUDIES	18
Graduate Programs	23
Undergraduate Programs	35
DIVISION OF HUMANITIES & SOCIAL SCIENCES	63
Graduate Programs	67
Undergraduate Programs	71
DIVISION OF SCIENCE & TECHNOLOGY	112
Graduate Programs	116
Undergraduate Programs	118
BOARD OF TRUSTEES	150
ACADEMIC / ADMINISTRATIVE DIRECTORY	152

# UNDERGRADUATE DEGREE PROGRAMS

<b>Fall 2025</b>	
Degree Seeking Housing Opens	September 1 (M)
Study Abroad Housing Opens	September 12 (F)
New Student Orientation/Study Abroad Orientation/Registration	September 15-19 (M-F)
Resit Exams for Spring I, Spring II and Summer Terms	September 18-19 (Th-F)
First Day of Classes	September 22 (M)
Last Day for Course Changes	September 26 (F)
Fall Break	October 25-28 (Sat-Tu)
Last Day to Withdraw from a Course	October 31 (F)
Polytechnic Day - No classes	November 17 (M)
Last day of classes	December 5 (F)
Final Exams for all courses	December 8-16 (M-Tu)
Study Abroad Housing Closes	December 17 (W)
<b>Spring I 2026</b>	
Study Abroad Housing Opens	January 5 (M)
New Student Orientation/Study Abroad Orientation/Registration	January 8-9 (Th-F)
First Day of Classes	January 12 (M)
Last Day for Course Changes	January 16 (F)
OU Exam Board (tentative)	February 2-5 (M-Th)
Fall Resit Exams, No Classes	February 12-13 (Th-F)
Last Day to Withdraw from a Course	February 20 (F)
Shrove Monday (Kathara Deftera), No Classes	February 23 (M)
Independence Day, No Classes	March 25 (W)
Last Day of Classes	March 27 (F)
Final Exams for all courses	March 30-April 3 (M-F)
Study Abroad Housing Closes	April 5 (Su)
<b>Spring II 2026</b>	
Study Abroad Housing Opens	April 17 (F)
First Day of Classes	April 20 (M)
Last Day for Course Changes	April 24 (F)
May Day, No Classes	May 1 (F)
Day of the Holy Ghost, No Classes	June 1 (M)
Last Day of Classes	June 5 (F)
Final Exams for all courses	June 8-9 (M-Tu)
Study Abroad Housing Closes	June 10 (W)
<b>Summer 2026</b>	
Study Abroad Housing Opens	June 10 (W)
Study Abroad Orientation	June 12 (F)
First Day of Classes	June 15 (M)
Last Day for Course Changes	June 15 (Tu)
Commencement	June 17 (W) - Tentative
Last Day to Withdraw from a Course	June 26 (F)
OU Exam Board (tentative)	June 29 - July 2 (M-Th)
Last Day of Classes	July 13 (M)
Reading Day	July 14 (Tu)
Final Examinations	July 15 (W)
Study Abroad Housing Closes	July 17 (F)
Degree Seeking Housing Closes	July 31 (F)

## GRADUATE PROGRAMS

Fall 2025	
Term 1	
September 22 (M)	First day of Classes
October 27 - 31 (M-F)	No Classes
November 3 (M)	Classes Resume
November 10-14 (M-F)	No Classes
November 18-21 (Tu-F)	Final Examinations
Term 2	
November 24 (M)	First day of Classes
December 19 (F)	Last day of Classes before Winter break
January 12 (M)	Classes Resume
January 26-30 (M-F)	No Classes
February 2-6 (M-F)	Final Examinations
Spring 2026	
Term 3	
February 9 (M)	First day of Classes
February 23 (M)	Shrove Monday, no classes
March 23 (M)	Make up for Feb 23
March 24-27 (Tu-F)	No Classes
March 30 - April 3 (M-F)	Final Examinations
Term 4	
April 20 (M)	First day of Classes
May 1 (Th)	Mayday, no classes
June 1-4 (M-Th)	No classes
June 5 (F)	Make up for May 1
June 8-12 (M-F)	Final Examinations

# ACT ADMINISTRATION

## PROVOST

**Dr. Stamos Karamouzis**  
Constantinidis Hall, Ground Floor, 2310-398221; stamos@act.edu

## ACADEMICS

**Associate Dean for Academic Affairs and Faculty, Dr. Sevasti Kessapidou**  
Stavros S. Niarchos Technology Center, Office 21, 2310 398-387; skessapi@act.edu

## ADMINISTRATION & STUDENT AFFAIRS

**Associate Dean for Administration & Student Affairs, Dr. Grigoris Baglavas**  
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## ENROLLMENT MANAGEMENT

**Associate Dean for Enrollment Management, Mr. Emmanuel Maou**  
Bissell Library, First Floor, 2310 398 380; emaou@act.edu

**Director of Admissions, Ms. Roula Lempetli**  
Bissell Library, First Floor, 2310 398 239; rleb@act.edu

**Associate Director of Enrollment for North America, Ms. Angel Elvin**  
18 Tremont Str., Suite 784, 7th Floor Boston, MA 02108, (877) 524-7301 toll free (in US); abroad@act.edu

**Head of Enrollment, Ms. Voula Dushku**  
Bissell Library, First Floor, 2310 398 238; vouladusk@act.edu

**US Regional Admissions Counselor and Coordinator, Mr. Keshon Kindred**  
18 Tremont Street, Suite 704, Boston, MA 02108, 001 617-686-2623, keshon@act.edu

**Regional Enrollment Counselor & Coordinator, Ms. Eva Deka**  
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**Admissions Officer, Ms. Eleni Foridou**  
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## INTERNATIONAL PROGRAMS & STUDENT SERVICES

**Director of International Programs & Student Services, Ms. Heather Funk Theodoridi**  
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**IPO & Student Services Coordinator, Ms. Maria Malea**  
Stavros Constantinidis Hall, First Floor, 2310 398 205; mamalea@act.edu

**Head of Student Life & Safety, Mr. Theodore Maleas**  
Stavros Constantinidis Hall, First Floor, 2310 398 242; tmaleas@act.edu

## ACT Students Studying in the US or Europe

ACT has signed a number of study abroad and exchange agreements with colleges and universities that enable students to spend a semester (or, in some cases, an academic year) studying abroad. Through these study abroad and exchange agreements, ACT students may spend a semester, usually in their second or third year of study, at a college in the US or Europe, and upon return to ACT receive full transfer credit for all courses successfully completed while abroad. Agreements with partner schools allow ACT students to enroll at collaborating institutions for a semester while continuing to pay ACT tuition and fees.

### **FINANCIAL POLICIES**

#### **Vice President for Finances & Human Resources/CFO**

**Mr. Pavlos Floros**

Stephens Hall, First Floor

2310 398-214

Email: pfloros@act.edu

All issues relating to financial policies/administration are clearly defined in the ACT Student Handbook. Following is a synopsis of the financial aid policy and the eligibility criteria applicable for interested students.

### **Scholarships at ACT**

The very definition of the word ‘scholarship’ embodies what the college experience is all about – learning, knowledge acquired by study, and the academic achievements of a student. ACT recognizes top students for outstanding academic achievement and helps them build a better future.

ACT strives to be not only the first choice, but also an affordable choice for the education of youth from Greece, Southeast Europe, the US and beyond. To that end, the College awards financial aid to a substantial number of students in each entering class. Financial aid awards aim to make quality education affordable to students in need, particularly during these difficult times, and also reward a student’s academic accomplishments and potential. The American College of Thessaloniki has developed a well-established program of financial aid to assist students in their quest for college education. This program ensures that no student should be deprived from attending ACT because of financial strains.

Our goal is to provide opportunities for academically talented students to achieve their aspirations through the pursuit of college education. At ACT, we foster an environment of recognition and equal opportunities that lead to academic excellence.

## **FINANCIAL AID AWARDS AT ACT**

### **What is a financial aid scholarship?**

The financial aid program grants awards to both local and international undergraduate and graduate students. Financial aid grants will be determined according to student or family financial need, as appropriate, and academic merit within College budget limitations. Financial aid is a percentage reduction in the ACT tuition fees.

### **How can I apply?**

Candidates should submit the following documents to the Admissions Office:

- a letter explaining in detail the financial situation of the candidate's family, and his/her educational objectives;
- bank account transactions for the last two years;
- the complete tax statements of the people financially responsible for the candidate (parents/guardians) for the last two years, including the real estate tax statement;
- a completed ACT Financial Aid Application Form (online).

All applicants are interviewed by members of the Financial Aid Committee.

### **When should I apply?**

Candidates who wish to be considered for a Financial Aid Scholarship must complete ACT's Financial Aid Application online in addition to their application for admission. The application must be submitted, complete with all supporting material, at the time of admission application. Due to the limitation of funds available, it is advisable to apply in time. A Financial Aid scholarship is normally renewed on an annual basis, pending availability of funds, and providing that the recipient:

- Maintains a good academic standing based on the award level received.
- Maintains a full-time status; except for graduating seniors in their last semester.

The financial aid committee consists of administrative and faculty staff members. The committee decides based on the credentials submitted by the applicants and the availability of funds. Notification regarding a financial aid scholarship is normally made within a month after the application.

### **Who is eligible for a financial aid scholarship?**

Any candidate applying for admission to the school may apply for a financial aid scholarship. ACT does not discriminate on the basis of race, creed, color, sex, national origin, age or disability in the administration of its academic and admission policies, scholarship and financial assistance programs.

In order to be considered for the Institutional Financial Aid program, certain requirements must be met:

- Be enrolled or accepted for enrollment.
- Be degree-seeking.
- Demonstrate financial need through submitting the financial aid application

An interview is required for all applicants.

## THE BISSELL LIBRARY

The Bissell Library of the American College of Thessaloniki (ACT) opened in the fall of 2002 and is one of the largest English language libraries in Greece and southeast Europe. The three-level, 4,500-square meter building houses the Bissell Library, plus the Stavros Niarchos Technology Center which is located in the basement. The Bissell Library offers a collection of over 33,000 books in print, over 240,000 electronic books, DVDs, and other media. The Library collection concentrates on business, English language and literature, international relations, politics, Balkan studies, computing, biology, hospitality and tourism, psychology, media studies and aviation. Additionally, there is a Study Skills Collection (designed to support students' learning, research, writing, presentation and English language skills), a Faculty Development Collection, a Wellbeing Collection, Librarians' Development Collection, and a wide selection of fiction in English. The Anatolia College Archives and Special Collections are also housed in the Bissell Library.

Library staff are available all hours the Library is open to assist with research and referencing. We also offer an Information Literacy curriculum embedded in all years of study. Library staff provide online support and requested scanned chapters by email following copyright laws. Students are encouraged to contact the Bissell Library with any questions, Library resource suggestions, and research support requests by phone (2310 398 390), via GoogleMeet online meetings by appointment or email at [bissell@act.edu](mailto:bissell@act.edu). For more information please visit the Bissell Library website at <https://anatolia.libguides.com/bissell>. The Anatolia Libraries (Bissell Library of ACT, the Eleftheriades Library of Anatolia College, the Anatolia Elementary School Library and the Pinewood Libraries) share a Library catalog in which collections of all Libraries may be searched. All currently enrolled students are entitled to full use of the Anatolia Libraries holdings. A current ACT student or alumnus electronic identification card is required to use the collections.

Facilities and services provided:

- access to a wealth of academic content via the library website
- how to access our “Online Library” guide
- more than 4,000 full-text journals, magazines, and newspapers
- 45 research databases
- 24/7 access to the online library and library catalog both on- and off-campus
- a wi-fi enabled building including network ports
- 250 seating places and 25 computers
- Library lab for up to 24 students
- group study zone, group study rooms and quiet zone
- social zone, wellbeing corner, prayer and meditation space
- a designated Academic Liaison Librarian for each division
- information literacy program
- subject specific research guides
- research support (drop-in or by appointment), including online
- self-service printing, photocopying and scanning
- 25 new laptops, chargers, adaptors and calculators for borrowing
- popular magazines
- regular art exhibitions
- filtered water fountain and coffee machine
- ebook and audio fiction collections and biography

The Learning Hub is located on the upper level of the Library. Students are invited to book a meeting online with a tutor and receive assistance with their writing, study, English language, science and digital skills needs. A wide variety of curated resources designed to support student learning are available at: [www.act.edu/learninghub](http://www.act.edu/learninghub). The Admissions and Enrollment Department, the Tourism & Hospitality Coordinator, as well as the Career Services & Alumni Relations and the Entrepreneurship Hub offices are also located in the Bissell Library.

Follow us on Facebook ([facebook.com/bisselllibrary](https://facebook.com/bisselllibrary)) and Instagram ([www.instagram.com/bissell\\_library/](https://www.instagram.com/bissell_library/)) to get the Bissell Library news and events. Also follow us on Pinterest (<https://gr.pinterest.com/bissell4230/>) for our latest acquisitions.

# UNDERGRADUATE DEGREE REQUIREMENTS

In order to successfully complete all requirements for graduation from the College, students must fulfill or have:

1. A minimum of forty courses, or at least 121 credit hours, including at least one laboratory session.
2. An 'Introduction to College Life' non-credit course (ACT 100) during the first year of studies.
3. General Education Program (GEP): The courses listed below satisfy the GEP, and in some cases, may be used to also satisfy requirements for certain majors.

## (I) The Arts and Humanities

*Group A (Communication):*

English 101, 102, 203/204

*Group B (Philosophy):*

Philosophy 101, 203/310/204

*Group C (Literature & Fine Arts):*

One course from: English 120, Art 120 or 121, Music 120, Art 123, Art 130

## (II) The Sciences

*Group A (Natural and Physical Sciences):*

One course from: Biology 112, Chemistry 117, Ecology 110, Physics 120, Physics 121, Nutrition 130

*Group B (Mathematics and Statistics):*

One course from: Math 100, 101, 115, 120, Statistics 205/210/211

*Group C (Computer Science):*

One course from: Computer Science 101, 105, 108, 115, 151

## (III) The Social Sciences

*Group A (Politics and Economics):*

Economics 101, Politics 101/Politics 230

*Group B (Anthropology, Psychology, Sociology):*

One course from: Anthropology 101, Psychology 101, Sociology 101

*Group C (History):*

One course from: History 120 or Social Science 210

One course from: Category I (The Arts and Humanities), Category II (The Sciences), Category III (The Social Sciences).

4. All prescribed requirements in the students's declared major(s)-concentration(s)-minor(s), as these are specified under each program. Students are encouraged to consult the Student Handbook for more information on General Education Objectives.

5. An overall GPA of 2.0 (C) or better
6. After fulfilling all GEP/major/concentration requirements for their degree, students may use any residual courses up to the minimum graduation requirement of 40 courses in order to complete a second concentration, a minor, or even a double major. Students must fulfill all prescribed work in their declared major(s) – concentration (s) – minor(s), but may use a common course required in more than one major or minor to satisfy the requirements of both programs, unless otherwise specified.
7. Minimum Residency Requirement: Students must complete at least one fourth of their undergraduate program, including advanced work in the major or concentration, at the institution awarding the degree. As a consequence, all candidates for an ACT degree must have been in residence at the College for at least the last two semesters of full- time instruction, assuming availability and equivalency of transferable courses.
8. Starting with Fall 2013, all entering students complete a single course of studies leading simultaneously to a dual degree: an American degree and a European degree (validated Honors Diploma) awarded by the British Open University: All of ACT's undergraduate degree programs - BSc (Hons) Biological Sciences, BSc (Hons) Business Administration, BSc (Hons) Business Computing, BSc (Hons) Computer Science, BA (Hons) English, BSc (Hons) in Psychology and BA (Hons) Political Science and International Relations - are currently validated by The Open University.

A student must meet a common set of degree requirements for the dual degree. All ACT degree requirements must be met in order to confer an Open University validated degree. Details on course offerings and program requirements can be found under each Division.

Students are subject to all ACT academic policies and regulations and in addition are subject to the Open University regulations for the validated program of studies. The ACT Student Handbook includes all applicable policies and regulations.

## **ACADEMIC DIVISIONS & AREAS**





## DIVISION *of* BUSINESS STUDIES

**Dr. Rotsios Konstantinos, Professor**  
**Coordinator, Business Programs**

Post-Doctoral Researcher, Democritus University of Thrace, PhD in Business Administration, MBA, University of Macedonia, MSc, BSc in Applied Economics, University of Minnesota  
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**Mr. Anastasiou Anestis, Assistant Professor**  
**Coordinator, Tourism & Hospitality**

BEng Mechanical Engineering, University College of London; MSc Energy Management, City University; MSc International Management, Kings College; Pg Dip Higher Education Teaching, University of Abertray Dundee; MA Politics & Economics, University of Macedonia  
 Tel: +30 2310 398389  
 Email: anestis@act.edu

### Academic staff

**Mr. Anastasiades Georgios, Adjunct Instructor**

*BSc Economics & Econometrics, Essex University; MPhil International Macroeconomics, Essex University*

**Mr. Anthoulidis Yiannis, Adjunct Instructor**

*BA in Tourism Management, ATEI Thessaloniki, Greece; MBA, University of Macedonia, Greece*

**Mr. Antoniou Konstantinos, Adjunct Instructor**

*BA Economics, Essex University; MSc International Banking & Finance, University of Wales*

**Ms. Druga Jolda, Adjunct Instructor**

*BA International Relations & Diplomacy, MS in Hospitality & Tourism Management, The American College of Thessaloniki*

**Mr. Fassas George, Adjunct Instructor**

*BA Business Administration-University of Macedonia, Greece; MBA-NYU Stern School of Business, U.S.A.*

**Ms. Gantina Evita, Adjunct Instructor**

*Diploma in Business Administration, SBALA; BS Business Management, University of Houston Clear Lake; MA Business Communication & Public Relations, European University Montreux*

**Dr. Giannopoulou Zoe, Adjunct Professor**

*LLM and PhD in European and Economic Law, Aristotle University of Thessaloniki, Accredited Mediator and Trainer*

**Dr. Hatjidis Dimitrios, Associate Professor**

*BSc Marketing North College; Graduate Certificate in Total Quality Management, Marymount University; MBA-International Business, Southern New Hampshire University; DBA, Grenoble Ecole de Management.*

**Dr. Nikolaos L. Hourvouliaades, Professor**

*BA Economics, Aristotle University of Thessaloniki; MBA Yale School of Management, Yale University; PhD in Financial Derivatives, Aristotle University of Thessaloniki*

**Ms. Kapnidou Anatoli**, Adjunct Instructor

*Bachelor in Tourism & Hospitality Management, Alexander Technological Education Institute of Thessaloniki, Thessaloniki, Executive MBA - Marketing, University of Macedonia, Thessaloniki, Master Certificate in Revenue Management, Cornell University, School of Hotel Administration, USA*

**Mr Kehagias Stelios**, Adjunct Instructor

*BA in Business Administration, MBA in International Business, McGill University, Canada*

**Dr. Kessapidou Sevasti**, Professor

*BA English Language & Literature, Aristotle University of Thessaloniki; MA English, Kent State University; PhD English, Kent State University*

**Dr. Klimis Kostas**, Adjunct Professor

*BSc Business Administration, Aristotle University of Thessaloniki; MSc Financial & Managerial Controls, University of Southampton; PhD Bank Marketing, University of Macedonia*

**Mr. Kouris Spyros**, Adjunct Instructor

*PgDip Tourism Management, Northumbria University; MSc International Hospitality Management, Strathclyde University*

**Dr. Krassas Ioannis**, Associate Professor

*BSc Mathematics, University of Crete; MSc Financial Economics, University of Cardiff; PhD Finance, University of Exeter*

**Mr. Kyriakidis Zacharias**, Adjunct Instructor

*BS in Military Service, Project Management Institute*

**Dr. Monastiridis Prodromos**, Adjunct Professor

*BA in Marketing - Technological Education Institute of Thessaloniki, Greece; MA in Marketing - Business School, University of Sunderland, UK; M. Phil - University of Sunderland, UK; PhD, Department of Journalism & Mass Communications, Aristotle University of Thessaloniki, Greece*

**Dr. Moutsianas Konstantinos**, Adjunct Professor

*BSc in Economics, Aristotle University of Thessaloniki, Greece; MSc in MIS, Aristotle University of Thessaloniki, Greece; MSc in Banking & Finance, International Hellenic University, Greece; Postgraduate Certificate in Higher Education, Coventry University, UK; PhD in Finance, Aristotle University of Thessaloniki, Greece*

**Mr. Papageorgiou Angelos**, Adjunct Instructor

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**Ms. Papamavroudi Foteini**, Adjunct Instructor

*BA Accounting & Financial Management, Essex University; MA International Management & Finance, Bradford University*

**Mr. Papanestoros Theodore**, Adjunct Instructor

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**Ms. Semertzian Rania**, Adjunct Instructor

*BA English and French, Berea College Kentucky; MA Patterson School of Diplomacy and International Commerce, University of Kentucky, USA*

**Ms. Tavanidou Ioanna**, Adjunct Instructor

*BA Economics, Aristotle University of Thessaloniki; MSc International Banking & Finance, Southampton University*

**Dt. Tsihla Eirini**, Associate Professor

*Ph.D in Marketing Aristotle University of Thessaloniki, Greece, MSc in Marketing University of Sterling, UK, BSc in Economics Aristotle University of Thessaloniki, Greece*



## **Our Educational Philosophy**

To prepare our students for the roles we have described we must assure their mastery of:

*Thinking Skills:* logical, critical and integrated analysis, the capacity to exercise good judgment; creative and non-traditional problem solving; and proficiency in ethical reasoning.

*Discipline-Specific Knowledge and Competencies:* e.g., information technology and quantitative skills appropriate to problem solving in real work settings.

*Communications Skills:* proficiency in oral, written, presentation, and distance communication.

*Change Management:* understanding and shaping the forces of change, including globalization, and using this understanding to formulate, evaluate, and select from alternative strategies to achieve sustainable competitive advantage for themselves and for their companies and organizations.

*Self-Development:* the capacity to engage in the effective self-management of lifelong learning to achieve continuous professional and personal growth.

## **Experiential Learning**

*Tell me and I will forget  
Show me and I might remember,  
Involve me and I will understand,*

Following this rubric, business students are given multiple opportunities to be involved through: company visits, internship opportunities, participation in student clubs and participation in the prestigious John Pappajohn Annual Business Plan Competition which offers both graduate and undergraduate students the opportunity to test their entrepreneurial skills and earn project seed money of up to \$ 5,000 doing so.

## THE ENTREPRENEURSHIP HUB

The Entrepreneurship Hub aims to bridge existing gaps in the entrepreneurial ecosystem and leverage on existing structures. Entrepreneurship is a team sport and the Entrepreneurship Hub acts as the glue to bring ecosystem stakeholders together and provide with a sturdy springboard for entrepreneurial activity to launch.

Since 2014 more than 1000 individuals have benefited from our events and activities. The Entrepreneurship Hub acts as a start-up idea accelerator and provides workshops and training on start-ups, mentoring, networking with ecosystem partners, as well as pitching events with money prizes. Our goal is to give the opportunity to interact with everyone active in the entrepreneurial community, promoting innovation and increasing productivity in the greater region.



## GRADUATE BUSINESS PROGRAMS

The graduate business programs offered by ACT include comprehensive Full Time / Part Time graduate programs.

### **MBA PROGRAM**

The MBA program at ACT aims to accommodate recent college graduates from different backgrounds and working professionals in the early stages of their careers. It is fully accredited in the US, and the UK by Open University. The degree requirements can be completed on a full-time (1 year) or part time basis.

One of the most basic characteristics of the program is extroversion. It equips students with applied knowledge and introduces them to real life practices and examples. Participants need to complete a total of 7 core modules in Terms 1, 2 and 3. In Term 4, they select 3 out of the 5 electives offered. The electives deepen the knowledge of students in subject areas such as management, marketing, entrepreneurship and finance. During term 3, students choose between a Thesis and an Applied Business Project.

All taught courses meet once a week for 7 weeks, including final exams, in a hybrid fashion, alternating between in-person and online meetings, i.e., there are three in-person meetings & three online meetings each term.

All sessions run from 18:00-22:30, including session breaks.

The Thesis and Applied Business Project courses are arranged flexibly between the student, instructor, and supervisor.

In addition to the modules taught, a series of compulsory, non-credit workshops give students the opportunity to improve skills such as leadership, communication and project management which are highly demanded by employers. Other advantages in terms of career development include the program's international environment, the flexible format of delivery, the quality and experience of the faculty, the experiential learning and the extensive networking opportunities.

Upon graduation participants will have learned how to become adaptable and resilient leaders who can use appropriate tools and their creativity to meet the economic, ethical, social and sustainable goals of businesses. They will also have acquired the necessary skills to become effective independent life-long learners.

**MBA PROGRAM OF STUDY**

<b>Academic Term 1</b>	MKTG 530 Marketing Management BUS 580 Strategic Management
<b>Academic Term 2</b>	FIN 540 Corporate Finance MNGT 525 Operations Management
<b>Academic Term 3</b>	MNGT 510 Managerial Economics STAT 505 Statistics + Data Analytics MNGT 520 Organizational Behavior and Change
<b>Academic Term 4</b>	Three of the following five electives MNGT 433 Conflict Management MKGT 543 Digital Marketing BUS 560 Entrepreneurship BUS 570 International Business FIN 542 Security analysis and portfolio management
<b>Closure Requirement</b>	BUS 599 Business Thesis <b>or</b> BUS 590 Applied Business Project

## **MSc IN TOURISM AND HOSPITALITY**

### **Tourism studies at ACT. An education that takes you places.**

The MSc in Hospitality and Tourism Management program at ACT is a unique program, that is fully accredited in the USA through NECHE and validated by the Open University.

To fulfill all graduation requirements, students must complete 9 compulsory courses, one of which is a choice between a Thesis or an Applied Business Project (Internship).

All taught courses meet once a week for 7 weeks, including final exams, in a hybrid fashion, alternating between in-person and online meetings, i.e., there are three in-person meetings & three online meetings each term.

All sessions run from 18:00-22:30, including session breaks.

The Thesis and Applied Project - Internship courses are arranged flexibly between the student, instructor, and supervisor.

In addition to the modules taught, a series of compulsory, non-credit workshops give students the opportunity to improve skills such as leadership, communication and project management which are highly demanded by employers. Other advantages in terms of career development include the program's international environment, the flexible format of delivery, the quality and experience of the faculty, the experiential learning and the extensive networking opportunities.

### **For further information about graduate applications:**

#### **Enrolment Management Office**

Bissell Library, First Floor

2310-398398

Email: [admissions@act.edu](mailto:admissions@act.edu)

## MSc HOSPITALITY AND TOURISM MANAGEMENT PROGRAM OF STUDY

<b>Academic Term 1</b>	MBA BUS 580: Strategic Management MS 530: Tourism Management MS 545: Hospitality Management
<b>Academic Term 2</b>	MBA MNGT 525: Operations Management MBA FIN 540: Corporate Finance MS 586: Performance Marketing
<b>Academic Term 3</b>	MS 548: Revenue Management MS 562: Events management
<b>Academic Term 4</b>	MS 598: Thesis <b>or</b> MS 596: Applied Project - Internship



graduate business programs

graduate business programs





**WEST HALL**

## GRADUATE COURSES

### **MKTG 530 Marketing Management**

This comprehensive, practical course outlines marketing management principles and guides students to design effective strategies to create and deliver superior value to customers and stakeholders. The course helps students to build the necessary skills to evaluate marketing opportunities, synthesize available market information, develop successful marketing strategies, and implement marketing plans. In addition, students are encouraged to reflect and see ways to use marketing concepts and tools to improve the well-being of others, not only in the sense of corporate profitability but also in the way that well-informed decision making, ethics, equity and sustainability can be achieved through marketing activities. The course equips students with the necessary knowledge and skills to attend more advanced marketing electives in the next quarters.

### **BUS 580 Strategic Management**

The Strategic Management course is designed to build some foundational knowledge in business and management. It serves as a capstone module that integrates and applies concepts from various disciplines, such as marketing, finance, operations, and human resource management. By focusing on strategic decision-making and long-term planning, this module helps students consolidate their learning and prepares them for leadership roles in complex organizational settings. The Strategic Management module aims to equip students with advanced understanding and application of strategic management theories, tools, and practices in contemporary business contexts. Students will develop the skills necessary to formulate and implement effective strategies, critically evaluate strategic choices, and understand the dynamics of strategic change within organizations.

### **FIN 540 Corporate Finance**

This course equips the students with fundamental theory and skills related to decision-making processes for the modern financial manager. The focus is to provide a mix of problem-solving methodology in realistic examples, alongside with the examination of the underlying theory and its implications for decision-making. The course seeks to develop students' understanding of the key concepts of financial management necessary for making and evaluating financial decisions concerning both the business itself as well as financial markets. In practical terms, the main points of the course concern the answers to three questions. Where to invest in order to maximize firm value, how capital markets behave (so that we maximize firm value by investing in them) and finally How to finance our investment decisions and the firm itself in order to maximize its value. In order for the course to be closer to real world applications, the typical theories and tools that concern corporate finance will be supplemented with the main behavioral and psychological obstacles that stand between finance professionals and the firm value maximizing behavior and how the effects of these behavioral obstacles that reduce firm value can be mitigated.

### **MNGT 525 Operations Management**

The course seeks to develop students' understanding of the fundamental role of operations management in services and manufacturing. Students are exposed to concepts, problems and analysis relating to most of the key corporate operational areas and related strategies. The course is tightly linked to Strategic Management as well as several modules that require a strategic understanding of corporate operations. The key thematic areas covered by the course are as follows: recent global corporate themes that relate to operations, corporate strategies, product design, process management, inventory management and corporate planning (MRP-ERP), product design, principles of total quality management, management of supply chains and the lean method focusing on start-ups and SMEs.

**MNGT 510 Managerial Economics**

The course aims to introduce students to microeconomic and macroeconomic concepts and demonstrate their application to the world of business. In microeconomics, the core units of the economic system like households, firms and factors of production will be analysed and the role of government regulation in influencing market outcomes will be examined. In the context of macroeconomics, the core units of the economic system and macroeconomic policies will be brought together to examine how they interact to produce a country's national income and determine its competitive position in the global economy. The first part of the course covers key thematic areas in economics starting from demand-supply analysis and the concept of elasticity and moving on to the behaviour of the firm and industry under different market types together with the impact of government regulation on the business environment. The second part of the course will present the macroeconomic environment and the role of macroeconomic policies over the business cycle and the impact on the external balance of the economy including exchange rate regimes.

**STAT 505 Statistics and Data Analytics**

Statistics and Data Analytics equips the students with fundamental theory and skills related to decision-making processes using statistical and econometric tools. The focus is to provide a mix of problem-solving methodology in realistic examples, alongside with the examination of the underlying theory and its implications for a variety of business problems, through their quantification, and subsequent processing using statistics and data analytics. This course aims to equip students with statistical - econometric analysis skills required in order to deal with everyday decision-making problems in a modern business environment. Tools and techniques of both descriptive and inferential statistics are introduced and increased effort is placed in providing students with an understanding of the role business statistics and data analytics play in decision-making and in improving business practices. The emphasis is on computer-based analysis and subsequent evaluation and interpretation of results and their implications, rather than analytical computations.

**MNGT 433 Conflict Management and Resolution**

Conflict resolution is a creative, interactive and fluid process that requires more than a core of knowledge and a set of tools. This module is designed to provide students with a deep understanding of conflict, drawing from diverse disciplines including communication, psychology and business. Students will explore the theoretical basis for a conflict resolution approach, and they will gain experience in how to put a comprehensive set of conflict resolution techniques into practice. It will identify a range of conflict resolution approaches, but will focus primarily on negotiation and mediation. Students will be able to identify a range of conflict resolution methods, approaches, strategies, and work with individuals, organizations and the community. They will be able to view disputes through the lens of gender and cultural differences and to select and apply negotiation and mediation skills in a variety of social work contexts. They will be able to critically analyze the use of CR approaches, strategies and skills – linking theory, research, values, skills, and self-reflection.

**MKGT 543 Digital Marketing**

The digital marketing landscape evolves at an unprecedented pace. This module equips learners with cutting-edge tools and strategies essential for navigating and excelling in this dynamic field. It bridges theory with practice, enabling learners to critically analyze, plan, and implement successful digital marketing campaigns. In this course, students will acquire a critical knowledge of digital marketing strategies and tactics, understand critically the integration of traditional and digital marketing strategies, evaluate the impact of technology and AI on marketing practices, cultivate skills for analyzing consumer behavior in digital contexts and promote strategic thinking in the use of metrics and analytics.

**MGNT 570 International Business**

Today more than ever firms are going global. However, the internationalization of businesses is a challenging and complex process. In addition, ethical and environmental concerns receive increased attention from internal and external stakeholders. This module familiarizes students with the various aspects of theory and practice of international trade and global business. This module aims to provide students with background information and a holistic coverage of a broad range of topics related to international business management. Students will gain a critical understanding of the importance of a competitive international business strategy. This module brings together elements from the other modules taught in the MBA program and examines their practical implications for the internationalization process.

**MNGT 520 Organizational Behavior and change**

Organizational Behavior and Change examines inter- and intrapersonal dynamics as they affect the continuous improvement of organizational performance and accomplishment of corporate goals. Topics include theories of organizational behavior concepts and applications, including motivation, group dynamics, organizational communication processes, leadership, power, authority, team building, the forces for change, the change implementation process, the qualities and skills of successful change agents, organizational and individual readiness to change, change management models, psychosocial factors affecting change and managing change in a complex domestic-international environment. Students are provided with a solid foundation for examining organizational behavior and change and in a systematic manner.

**MBA-MNGT 522 Human Resources Management**

The course provides an overview of the basic concepts and practices of Human Resource Management of a modern organization. Its emphasis is on the well-being, high performance, personal and professional development of employees as well as on the success of the organization. It also focuses on the strategic perspective of managing people, the global realities of HRM and the use of modern technologies across several HRM practices within an ethical framework.

**FIN 542 Security Analysis and Portfolio Management**

Security Analysis and Portfolio Management equips the students with fundamental theory and skills related to decision-making processes for the modern financial portfolio manager. The focus is to provide a mix of problem-solving methodology in realistic examples, alongside with the examination of the underlying theory and its implications for investments, trading and portfolio management. It extends the basic framework of tools that students learned in Corporate Finance, with a specialized set applied in investments and financial markets. The course seeks to develop students' understanding of the key concepts of financial management necessary for making and evaluating financial decisions concerning both the business itself as well as financial markets. The purpose of this course is to offer a professional-like approach to the characteristics and analyses of security analysis and portfolio management. It provides an understanding of the general principles of financial and investment decision-making through an examination of asset pricing models and the efficient market hypothesis, as well as treatment of bond and stock pricing, and bond and stock fund management.

**BUS 560 Entrepreneurship**

The study of entrepreneurship enables students to develop important skills, such as problem solving, seizing opportunities, creativity, innovation, leadership, sustainability and social responsibility. It relates to the other MBA subject areas taught in this program, as it offers the opportunity to students to actually combine and incorporate several business aspects (management, marketing, economics and finance), into a business plan. This module aims to develop the understanding of students on developing and business plan for a start-up, with a focus on the current global market developments. It brings together elements from all the other modules taught in the MBA program, such as operations, marketing and strategic management, finance and economics, statistics and organizational change aspects. During the module, students will be introduced to successful and non-successful entrepreneurial efforts in order to gain real life perspectives.

**BUS 599 Thesis**

This is one of the concluding modules of the program. Students have to produce a paper in a topic of their choice under the supervision of an assigned faculty and supported in front of a committee. The basic task of the students is to undertake a major study on an individual basis and submit a paper in the end of their final year. The paper will normally be either an empirical investigation or one based on secondary sources. As such, the thesis is an integral part of the program as it enables students to demonstrate the application of those analytical, investigative and evaluative skills developed during the program. The thesis allows students to pursue issues in depth and undertake their own research under supervision.

**BUS 590 Applied Business Project**

This is the one of the concluding modules of the program. The practical application of theory taught is of utmost important for this program. During this time, students are working on a full-time or a part-time basis (depending on availability) on a real project/case assigned to them by a participating company. Students can either work at the assigned company via a conventional internship, or receive a specific project (again by the company) to be submitted within a given deadline. This Business Applied module will play a catalytic role in combining and integrating all acquired knowledge and experiences during the academic program. Participants are expected to demonstrate their full potential and contribute into the firms' everyday operations, as well as offer their expertise to the management. In addition, being a hands-on industry-related module means that students are expected to further develop their determination to work and succeed in the industry and become successful managers in the future.

**HOSPITALITY AND TOURISM MANAGEMENT****MS 545: Hospitality Management**

Hospitality is a concept deeply rooted into the Greek mentality. Intuitive hospitality is offered by all tourism professionals and the country is renowned for this quality. Nevertheless, contemporary developments and cultural trends make it necessary for professionals to be educated according to today's needs. This course covers a wide range of topics that include advance hospitality management theory, impact of socio-economics and technology on hospitality, the future trends, laws relating to business ownership, current practices, legislation and ethics in hospitality practices, operations of revenue, logistics in accommodation for guests, guest handling, and various segments such room, concierge, food and beverage, pools, casinos, beach-bars and restaurants.

**MS 548: Revenue Management**

With a fixed capacity, a highly disposable product and high fixed costs, hotels are a natural candidate for the application of revenue management. With modern-day rising acquisition costs and distribution complexities, revenue management techniques have increasingly been adopted by both small and large hotel companies, making a comprehensive understanding of segmentation, forecasting and pricing an essential requirement for today's hospitality professionals. The purpose of this course is to provide a core understanding of the fundamentals of revenue management, which ties into the larger picture of revenue strategy. The course is structured to provide an insightful look into Revenue Management and will cover all the need-to-know topics, including: Hotel Distribution; How to manage OTAs; How to perform market segmentation; Strategies for forecasting and budgeting advantage; Optimization of your pricing policy; Introduction to Yield & Revenue Management.

**MS 562: 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 and 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.

**MS 598: Thesis**

This is one of the concluding modules of the program. All participants will have to produce a paper on a topic of their choice under the supervision of an assigned faculty. The basic task of the students is to undertake a major study on an individual basis and submit a paper at the end of their final year. The paper will normally be either an empirical investigation or one based on secondary sources. As such, the thesis is an integral part of the program as it enables students to demonstrate the application of those analytical, investigative and evaluative skills developed during the program. The thesis allows students to pursue issues in depth and undertake their own research under supervision. The topic chosen can either be related to their internship experience or be selected individually on an issue of their interest.

**MS 596: Applied Project - Internship**

This is the one of the concluding modules of the program. The practical application of theory taught is of utmost importance for this program. During this time, students are asked to spend their time working on a full-time or a part-time basis (depending on availability) on a real project/case assigned to them by a participating company. This module Applied Project - Internship will play a catalytic role in combining and integrating all acquired knowledge and experiences during the academic program. Students are expected to demonstrate their full potential and contribute to the firms' everyday operations, as well as offer their expertise to the management. In addition, being a hands-on industry-related module means that students are expected to further develop their determination to work and succeed in the industry and become successful managers in the future.

## UNDERGRADUATE BUSINESS PROGRAMS

### ACADEMIC PROGRAMS

The Division of Business Studies offers the following undergraduate programs:

#### **Degree Programs:**

- Bachelor in Aviation Management with Pilot Studies
- Bachelor of Science in Business with Concentrations in:
  - Entrepreneurial Management
  - Tourism
  - International Business & Finance
  - Marketing
- Minor in Human Resources Management
- Minor in International Business

# DEGREE PROGRAMS

## BACHELOR IN AVIATION MANAGEMENT WITH PILOT STUDIES

### Degree Requirements

In order to receive the Bachelor's in Aviation Management with Pilot Studies, the student must complete a total of 40 courses (122 credits), including GEP requirements, with an overall G.P.A of 2.0 or better. ACT will allow credit for courses equivalent to 42 credits completed at Egnatia Aviation. Undergraduate credit will be awarded for courses taken at Egnatia Aviation in which a student has received a passing grade equivalent to 75% or higher (grade scale 0-100), which meets ACT's course transfer requirement of "C" or better.

### Course Requirements

- English 101
- English 102
- English 204
- Mathematics 120
- Marketing 101
- Economics 101
- Management 101
- Physics 120
- Computer Science 151
- Art 123
- Politics 230
- Physics 121
- Psychology 101
- Management 201
- Research 299
- Social Science 210
- Statistics 201
- Economics 102
- Management 310
- Philosophy 101
- Philosophy 204
- Aviation 300
- Aviation 310
- Aviation 320
- Management 460
- Management 323

- Composition I
- Composition II
- Business/Professional Communication
- Calculus I for Science and Engineering
- Introduction to Marketing
- Introduction to Macroeconomics
- Introduction to Management
- University Physics I for Science and Engineering
- Quantitative Computing
- Airplane Design and Concepts
- Comparative Politics
- University Physics II for Science and Engineering
- Introduction to Psychology
- Organization Behavior
- Business Research Methods
- Human Geographies
- Statistics with Software
- Introduction to Microeconomics
- Human Resource Management
- Introduction to Philosophy and Critical Reasoning
- Crisis Management and Ethics
- Airport and Fleet Management
- Sustainability of Aviation
- Safety and Security in Aviation Operations
- Contemporary Project Management
- Thesis

### Courses taken at Egnatia Aviation

- Air Law and ATC Procedures
- Electrics and Engines
- Mass and Balance
- Flight Planning and Monitoring
- Meteorology
- Radio Navigation
- Principles of Flight (Airplane)
- Airframe and Systems
- Instrumentation Performance (Airplane)
- Human Performance and Limitations
- General Navigation
- Communications

## **BACHELOR IN AVIATION MANAGEMENT WITH PILOT STUDIES SUGGESTED PROGRAM OF STUDY**

### **Year One**

English 101  
English 102  
English 204  
Mathematics 120  
Marketing 101  
Economics 101  
Management 101  
Physics 120  
Computer Science 151  
Art 123

### **Year two**

Politics 230  
Physics 121  
Psychology 101  
Management 201  
Research 299  
Social Science 210  
Statistics 201  
Economics 102  
Management 310  
Philosophy 101

### **Year three**

Philosophy 204  
Aviation 300  
Aviation 310  
Aviation 320  
Management 460  
Management 323

### **Courses at Egnatia Aviation**

Air Law and ATC Procedures  
Electrics and Engines  
Mass and Balance  
Flight Planning and Monitoring  
Meteorology  
Radio Navigation  
Principles of Flight  
Airframe and Systems  
Instrumentation Performance (Airplane)  
Human Performance and Limitations  
General Navigation  
Operational Procedures  
Communications

## **BACHELOR OF SCIENCE IN BUSINESS** **CONCENTRATION IN ENTREPRENEURIAL MANAGEMENT**

This Concentration deals with the challenges of leading organizations and working with people in a constantly changing economic environment. The Entrepreneurial Management program prepares you for a wide variety of positions in business or consulting. One of the most common career paths is to begin as a management trainee, the first step towards becoming a general manager or executive. Students can also prepare for a career in human resource management working in areas such as training and development recruiting and staffing. Finally, management courses will advance your own personal leadership and negotiation skills.

### **Degree Requirements**

In order to receive the BS degree, the student must have fulfilled all the GEP and major requirements and have completed at least 121 US credit hours with an overall G.P.A of 2.0 or better. All business students take a Research Methods course followed by a Business Strategy I and Business Strategy II (capstone, final project) course. According to NECHE Standards, students must complete at least one fourth of their undergraduate program, including advanced work in the major or concentration, at the institution awarding the degree. As a consequence, all candidates for an ACT degree must have been in residence at the College for at least during the last two semesters of full time instruction, assuming availability and equivalency of transferable courses.

**Open University degree structure:** The program in Business—Entrepreneurial Management is currently validated by Open University: under this scheme, 24 are out of the 40 courses required for a Bachelor's degree are validated by Open University. Students must necessarily take the fourth year courses at ACT. Successful students will receive a Bachelor's degree from Open University in addition to the ACT degree for a single course of studies by meeting the following common set of requirements (in addition to meeting General Education Requirements)—courses highlighted in bold are validated by Open University.

### **Major Requirements**

#### **Level 4**

Mathematics 115	Calculus (OU)
Computer Science 151	Quantitative Computing (OU)
Management 101	Introduction to Management (OU)
Accounting 101	Financial Accounting (OU)
Economics 101	Introductory Macroeconomics (OU)
Accounting 101	Financial Accounting (OU)
Marketing 101	Introduction to Marketing (OU)
Economics 102	Introductory Microeconomics (OU)

#### **Level 5**

Management 201	Organizational Behavior (OU)
Finance 201	Financial Management (OU)
Business Administration 241	International Business Law (OU)
Computer Science 201	Business Computing (OU)
Research Methods 299	Business Research Methods (OU)
Finance 202	Entrepreneurial and Corporate Finance (OU)
Management 219	Entrepreneurial International Business (OU)
Statistics 205	Introductory Statistics (OU)

**Level 6**

Management 310	Human Resources Management
Management 322	Business Strategy I (OU)
Management 312	Operations Management (OU)
Marketing 330	Consumer Behavior (OU)
Management 323	Business Strategy II (OU)
Management 330	Entrepreneurship and Innovation (OU)
Marketing 301	Entrepreneurial and Corporate Marketing Strategy (OU)
Management 341	Business in Greece and the E.U. (OU)

**Other Degree Requirements**

Management 240	Creative Thinking
Mathematics 101	Elements of Finite Mathematics
Computer Science 101	Introduction to Computing

**a. Business Electives****Three Business Electives from among:**

Business 399: Global Competitiveness Practicum  
 Econ 242: Applied Managerial Economics  
 CS 250: E-Commerce  
 Business 398: Undergraduate Internship in Business  
 CS 306: Advanced Web Development (OU)  
 CS 312: Database Management Systems (OU)  
 CS 325: Distributed Applications (OU)  
 CS 412: Object Oriented Design Patterns (OU)  
 CS 422: Advanced Database Systems (OU)  
 CS 450: System Analysis and Design (OU)  
 CS 499: Advanced Programming Tools  
 Fin 210: International Money and Banking (OU)  
 Fin 220: Investment and Portfolio Management (OU)  
 Fin 232: International Finance (OU)  
 Fin 400: Seminar in Finance  
 Mkg 200: Principles of Public Relations (OU) Mkg 212: Sales Management (OU)  
 Mkg 214: Advertising (OU)  
 Mkg 311: Retailing  
 Mkg 318: Global Marketing (OU) Mkg 320: Marketing Research (OU)  
 Mkg 324: e-Marketing (OU)  
 Mgt 218: International Business (OU)  
 Mgt 244: Managerial Decision Making

**b. One free elective**

\* One course from any of the courses listed in the College Catalog

**BACHELOR OF SCIENCE IN BUSINESS WITH CONCENTRATION IN ENTREPRENEURIAL MANAGEMENT  
SUGGESTED PROGRAM OF STUDY**

**Year One:**

Mathematics 101  
CS101 or CS105  
History 120  
English 101  
Politics 101  
Mathematics 115 (OU)  
Computer Science 151(OU)  
Philosophy 101  
English 102  
Bio 101 or Ecology 110

**Year Two:**

Management 101 (OU)  
Accounting 101 (OU)  
Economics 101 (OU)  
English 204  
English 120, Art 120, or Music 120  
Accounting 102 (OU)  
Economics 102 (OU)  
Marketing 101 (OU)  
Philosophy 203  
Anthropology 101, Sociology101, or Psychology 101

**Year Three:**

Management 201 (OU)  
Finance 201 (OU)  
Business Administration 241 (OU)  
Computer Science 201 (OU)  
Research Methods 299 (OU)  
Statistics 205 (OU)  
Finance 202 (OU)  
Management 219 (OU)  
Business Elective  
Free Elective

**Year Four:**

Management 322 (OU)  
Management 341 (OU)  
Management 312 (OU)  
Marketing 330 OU  
Management 323 (OU)  
Management 310 (OU)  
Management 330 (OU)  
Marketing 301 (OU)  
Two Business electives

## **BACHELOR OF SCIENCE IN BUSINESS** **CONCENTRATION IN INTERNATIONAL BUSINESS & FINANCE**

Global financial markets remain a dynamic sector of the world economy. Today the demand for International Business & Finance professionals to interpret the flood of information and to implement trading and financial strategies requires that the students understand theory and also have hands-on experience. ACT's goal is to educate and prepare students for successful careers in financial management through a careful balance between theory and hands-on learning.

### **Degree Requirements**

In order to receive the BS degree, the student must have fulfilled all the GEP and major requirements and have completed at least 121 US credit hours with an overall G.P.A. of 2.0 or better. All business students take a Research Methods course followed by a Business Strategy I and Business Strategy II (capstone, final project) course. According to NECHE Standards, students must complete at least one fourth of their undergraduate program, including advanced work in the major or concentration, at the institution awarding the degree. As a consequence, all candidates for an ACT degree must have been in residence at the College for at least during the last two semesters of full time instruction, assuming availability and equivalency of transferable courses.

**Open University degree structure:** The program in Business—International Business & Finance is currently validated by Open University: under this scheme, 24 are out of the 40 courses required for a Bachelor's degree are validated by Open University. Students must necessarily take the fourth year courses at ACT. Successful students will receive a Bachelor's degree from Open University in addition to the ACT degree for a single course of studies by meeting the following common set of requirements (in addition to meeting General Education Requirements)—courses highlighted in bold are validated by Open University.

### **Major Requirements**

#### **Level 4**

Mathematics 115	Calculus (OU)
Computer Science 151	Quantitative Computing (OU)
Management 101	Introduction to Management (OU)
Accounting 101	Financial Accounting (OU)
Economics 101	Introductory Macroeconomics (OU)
Accounting 101	Financial Accounting (OU)
Marketing 101	Introduction to Marketing (OU)
Economics 102	Introductory Microeconomics (OU)

#### **Level 5**

Management 201	Organizational Behavior (OU)
Finance 201	Financial Management (OU)
Business Administration 241	International Business Law (OU)
Computer Science 201	Business Computing (OU)
Research Methods 299	Business Research Methods (OU)
Finance 202	Entrepreneurial and Corporate Finance (OU)
Management 219	Entrepreneurial International Business (OU)
Statistics 205	Introductory Statistics (OU)

**Level 6**

Management 322	Business Strategy I (OU)
Management 312	Operations Management (OU)
Finance 232	International Finance (OU)
Management 341	Business in Greece and the EU
Finance 220	Investment and Portfolio Management
Economics 332	International Economics
Marketing 318	Global Marketing
Management 323	Business Strategy II (OU)

**Other Degree Requirements**

Finance 400	Seminar in Finance
Mathematics 101	Elements of Finite Mathematics
Computer Science 101	Introduction to Computing

**a. Business Electives****Three Business Electives from among:**

- Business 398: Undergraduate Internship in Business
- Business 399: Global Competitiveness Practicum
- CS 250: E-Commerce
- CS 306: Advanced Web Development (OU)
- CS 312: Database Management Systems (OU)
- CS 325: Distributed Applications (OU)
- CS 412: Object Oriented Design Patterns (OU)
- CS 422: Advanced Database Systems (OU)
- CS 450: System Analysis and Design (OU)
- CS 499: Advanced Programming Tools (OU)
- Econ 332: International Economics (OU)
- Mkg 200: Principles of Public Relations (OU)
- Mkg 212: Sales Management (OU)
- Mkg 214: Advertising (OU)
- Mkg 311: Retailing
- Mkg 318: Global Marketing (OU)
- Mkg 320: Marketing Research (OU)
- Mkg 324: E-Marketing (OU)
- Mkg 330: Consumer Behavior (OU)
- Mngt 210: Human Resource Management for Growth (OU)
- Mngt 219: Entrepreneurial International Business (OU)
- Mngt 330: Entrepreneurship and Innovation (OU)
- Mgt 341: Business in Greece and the EU (OU)

**b. One free elective**

*\*\* One course from any of the courses listed in the College Catalog*

**BACHELOR OF SCIENCE IN BUSINESS  
WITH CONCENTRATION IN INTERNATIONAL BUSINESS & FINANCE  
SUGGESTED PROGRAM OF STUDY**

**Year One:**

Mathematics 101  
CS101 or CS105  
History 120  
English 101  
Politics 101  
Mathematics 115 (OU)  
Computer Science 151(OU) Philosophy 101  
English 102  
Biology 101 or Ecology 110

**Year Two:**

Management 101(OU)  
Accounting 101(OU)  
Economics 101(OU)  
English 204  
English 120, Art 120, or Music 120  
Accounting 102 (OU)  
Economics 102 (OU)  
Marketing 101 (OU)  
Philosophy 203  
Anthropology 101, Sociology101, or Psychology 101

**Year Three:**

Management 201 (OU)  
Finance 201(OU)  
Business Administration 241 (OU)  
Computer Science 201(OU)  
Research Methods 299 (OU)  
Statistics 205 (OU)  
Finance 202 (OU)  
Management 219 OU)  
Business elective  
Free Elective

**Year Four:**

Management 322 (OU)  
Finance 232 (OU)  
Management 312 (OU)  
Management 341 (OU)  
Management 323 (OU)  
Finance 220 (OU)  
Economics 332 (OU)  
Marketing 318 (OU)  
Two Business electives

## **BACHELOR OF SCIENCE IN BUSINESS** **CONCENTRATION IN TOURISM**

The Tourism program deals with the challenges and the opportunities of contemporary tourism and hospitality. Students learn to analyze market and investment opportunities in other countries. Through a careful blending of theory and practical applications students are prepared to pursue careers in local and international tourism and hospitality organizations.

### **Degree Requirements**

In order to receive the BS degree, the student must have fulfilled all the GEP and major requirements and have completed at least 121 US credit hours with an overall G.P.A of 2.0 or better. All business students take a Research Methods course followed by a Business Strategy I and Business Strategy II (capstone, final project) course. According to NECHE Standards, students must complete at least one fourth of their undergraduate program, including advanced work in the major or concentration, at the institution awarding the degree. As a consequence, all candidates for an ACT degree must have been in residence at the College for at least during the last two semesters of full time instruction, assuming availability and equivalency of transferable courses.

### **Open University degree structure**

The program in Business—Tourism is currently validated by Open University: under this scheme, 24 are out of the 40 courses required for a Bachelor's degree are validated by Open University. Students must necessarily take the fourth year courses at ACT. Successful students will receive a Bachelor's degree from Open University in addition to the ACT degree for a single course of studies by meeting the following common set of requirements (in addition to meeting General Education Requirements)—courses highlighted in bold are validated by Open University.

### **Major Requirements**

#### **Level 4**

Mathematics 115	Calculus (OU)
Computer Science 151	Quantitative Computing (OU)
Management 101	Introduction to Management (OU)
Accounting 101	Financial Accounting (OU)
Economics 101	Introductory Macroeconomics (OU)
Accounting 101	Financial Accounting (OU)
Marketing 101	Introduction to Marketing (OU)
Economics 102	Introductory Microeconomics (OU)

**Level 5**

Management 201	Organizational Behavior (OU)
Finance 201	Financial Management (OU)
Business Administration 241	International Business Law (OU)
Computer Science 201	Business Computing (OU)
Management 203	Hospitality Management (OU)
Management 201	Tourism Marketing (OU)
Management 202	Destination Management (OU)
Statistics 205	Introductory Statistics (OU)

**Level 6**

Management 322	Business Strategy I (OU)
Management 305	HR in Hotel & Tourism (OU)
Management 303	Events Management (OU)
Management 302	Revenue Management (OU)
Management 460	Contemporary Project Management
Marketing 303	E-Business for Tourism
Marketing 320	Marketing Research
Management 323	Business Strategy II (OU)

**Other Degree Requirements**

Mathematics 101	Elements of Finite Mathematics
Computer Science 101	Introduction to Computing

**a. Business Electives**

Business 398	Undergraduate Internship in Business
Business 399	Global Competitiveness Practicum
Economics 242	Managerial Economics
Marketing 202	Services Marketing
Marketing 212	Sales Marketing
Marketing 302	Corporate Social Responsibility
Marketing 308	Leadership Development
Marketing 307	Negotiations
Finance 210	Money & Banking
Finance 301	Advanced Monetary Policy
Computer Science 401	Quantitative Operations Models

**b. One free elective**

*\* One course from any of the courses listed in the College Catalog*

**BACHELOR OF SCIENCE IN BUSINESS WITH CONCENTRATION IN TOURISM  
SUGGESTED PROGRAM OF STUDY**

**Year One**

Mathematics 101  
CS101 or CS105  
History 120  
English 101  
Politics 101  
Mathematics 115 (OU)  
Computer Science 151 (OU)  
Philosophy 101  
English 102  
Bio 101 or Ecology 110

**Year Two**

Management 101 (OU)  
Accounting 101 (OU)  
Economics 101 (OU)  
English 204  
English 120, Art 120, or Music 120  
Accounting 102 (OU)  
Economics 102 (OU)  
Marketing 101 (OU)  
Philosophy 203  
Anthropology 101, Sociology 101, or Psychology 101

**Year Three**

Management 201 (OU)  
Finance 201 (OU)  
Business Administration 241 (OU)  
Computer Science 201 (OU)  
Management 202 (OU)  
Management 203 (OU)  
Statistics 205 (OU)  
Marketing 201 (OU)  
Free Elective  
Business Elective

**Year Four**

Management 322 (OU)  
Management 302 (OU)  
Management 303 (OU)  
Marketing 303 (OU)  
Management 323 (OU)  
Management 305 (OU)  
Management 460 (OU)  
Marketing 320 (OU)  
Two Business Electives

## **BACHELOR OF SCIENCE IN BUSINESS** **CONCENTRATION IN MARKETING**

Marketing is a critical function for all businesses since it involves the closest contact with customers. Marketing managers identify who a firm's customers are, what they need, and how the firm can best satisfy that need. As a result, this discipline plays a large role in creating profits for a business. Many successful marketing managers achieve high positions within an organization. Marketing graduates may find professional opportunities in sales, market research, retailing and advertising. More experience brings advancement to marketing management, market analysis, and consulting.

### **Degree Requirements**

In order to receive the BS degree, the student must have fulfilled all the GEP and major requirements and have completed at least 121 US credit hours with an overall G.P.A of 2.0 or better. All business students take a Research Methods course followed by a Business Strategy I and Business Strategy II (capstone, final project) course. According to NECHE Standards, students must complete at least one fourth of their undergraduate program, including advanced work in the major or concentration, at the institution awarding the degree. As a consequence, all candidates for an ACT degree must have been in residence at the College for at least during the last two semesters of full time instruction, assuming availability and equivalency of transferable courses.

**Open University degree structure:** The program in Business—Marketing is currently validated by Open University: under this scheme, 24 are out of the 40 courses required for a Bachelor's degree are validated by Open University. Students must necessarily take the fourth year courses at ACT. Successful students will receive a Bachelor's degree from Open University in addition to the ACT degree for a single course of studies by meeting the following common set of requirements (in addition to meeting General Education Requirements)—courses highlighted in bold are validated by Open University.

### **Major Requirements**

#### **Level 4**

Mathematics 115	Calculus (OU)
Computer Science 151	Quantitative Computing (OU)
Management 101	Introduction to Management (OU)
Accounting 101	Financial Accounting (OU)
Economics 101	Introductory Macroeconomics (OU)
Accounting 101	Financial Accounting (OU)
Marketing 101	Introduction to Marketing (OU)
Economics 102	Introductory Microeconomics (OU)

#### **Level 5**

Management 201	Organizational Behavior (OU)
Finance 201	Financial Management (OU)
Business Administration 241	International Business Law (OU)
Computer Science 201	Business Computing (OU)
Marketing 200	Public Relations
Statistics 205	Introductory Statistics (OU)
Research Methods 299	Business Research Methods (OU)
Marketing 214	Advertising

**Level 6**

Management 322	Business Strategy I (OU)
Marketing 324	E-marketing (OU)
Marketing 330	Consumer Behavior (OU)
Management 312	Operations Management (OU)
Marketing 301	Marketing Strategy & Brand Strategy (OU)
Marketing 320	Marketing Research (OU)
Marketing 318	Global Marketing (OU)
Management 323	Business Strategy II (OU)

**Other Degree Requirements**

Management 240	Creative Thinking
Mathematics 101	Elements of Finite Mathematics
Computer Science 101	Introduction to Computing

**c. Business Electives**Three Business Electives from among:

Business 398: Undergraduate Internship in Business

Business 399: Global Competitiveness Practicum

Econ 332: International Economics (OU)

CS 250: E-Commerce

CS 306: Advanced Web Development (OU)

CS 312: Database Management Systems (OU)

CS 325: Distributed Applications (OU)

CS 412: Object Oriented Design Patterns (OU)

CS 422: Advanced Database Systems (OU)

CS 450: System Analysis and Design (OU)

CS 499: Advanced Programming Tools (OU)

Fin 202: Corporate Finance (OU)

Fin 210: International Money and Banking (OU)

Fin 220: Investment and Portfolio Management (OU)

Fin 232: International Finance (OU)

Fin 400: Seminar in Finance

Mgt 210: Human Resource Management for Growth (OU)

Mgt 219: International Business (OU)

Mgt/Econ 242: Applied Managerial Economics (OU) Mgt 330: Entrepreneurship and Innovation (OU)

Mgt 341: Business in Greece and the EU (OU) Marketing 212 Sales Management (OU)

Mkg 311: Retailing

**One free elective**

*\* One course from any of the courses listed in the College Catalog*

**BACHELOR OF SCIENCE IN BUSINESS WITH CONCENTRATION IN MARKETING  
SUGGESTED PROGRAM OF STUDY**

**Year One**

Mathematics 101  
CS101 or CS105  
History 120  
English 101  
Politics 101  
Mathematics 115 (OU)  
Computer Science 151 (OU)  
Philosophy 101  
English 102  
Bio 101 or Ecology 110

**Year Two (Level 4)**

Management 101 (OU)  
Accounting 101 (OU)  
Economics 101 (OU)  
English 204  
English 120, Art 120, or Music 120  
Accounting 102 (OU)  
Economics 102 (OU)  
Marketing 101 (OU)  
Philosophy 203  
Anthropology 101, Sociology 101, or Psychology 101

**Year Three**

Management 201 (OU)  
Finance 201(OU)  
Business Administration 241 (OU)  
Marketing 200 (OU)  
Research Methods 299 (OU)  
Statistics 205 (OU)  
Marketing 214 (OU)  
Computer Science 201 (OU)  
Business elective  
Free Elective

**Year Four**

Management 322 (OU)  
Management 312 (OU)  
Marketing 330 (OU) Marketing 324 (OU)  
Management 323 (OU)  
Marketing 320 (OU)  
Marketing 318 (OU)  
Marketing 301 (OU)  
Two Business electives

## MINORS

The Division of Business offers the opportunity to students from other majors to pursue Minors in Human Resources Management and in International Business. These minors are not available to Business majors.

### **MINOR IN HUMAN RESOURCE MANAGEMENT**

- Management 101, 201, 310
- 3 electives from the following: Business Administration 241, Economics 102, Management 219, Marketing 200

### **MINOR IN INTERNATIONAL BUSINESS**

- Management 101, 219
- Marketing 101, 318
- 2 electives from the following: Business 241, Economics 101, Economics 332, Finance 220, Marketing 214, Marketing 324

### **MINOR IN LEADERSHIP**

- Management 101, 201
- Management 307, 308
- Communication 315
- Management 460



## UNDERGRADUATE BUSINESS COURSES

*The courses listed below are expected to be offered at least every two years and a reevaluation of the entire course curriculum will be carried out every two years in order to maintain an updated list of course offerings.*

### ACCOUNTING

#### **Accounting 101: Financial Accounting**

This course is designed to provide students with an understanding of accounting information and the environment in which it is developed and used. Accounting principles and procedures are discussed in order to provide an understanding of the financial accounting process, including the recording, summarizing, and reporting of business transactions, which results in the preparation of financial statements. Topics covered include accounting and the business environment, revenue and cost recognition, asset valuation, depreciation, and an introduction to financial statement analysis.

#### **Accounting 102: Managerial Accounting**

This course is designed to give insight into the interpretation and use of financial reports for management planning, coordination and control. Students will be exposed to the kind of accounting information needed, where this information can be obtained, and how this information can be used by managers as they carry out their planning, controlling, and decisionmaking responsibilities. Topics include management accounting vs. financial accounting, classification and behavior of costs, CVP analysis, segmented reporting, standard costing and responsibility accounting. **Prereq: Accounting 101, Management 101**

### AVIATION

**ART 123 Aircraft Design Principles:** This course is designed in order to provide students with a basic understanding of the principles of aircraft design. The concepts and principles will cover designs of both military and civilian applications from 1903 to today. The course will provide a basic introduction of the principles of physics and aerodynamics relevant to aircraft design. Subsequently the core components of the course will include topics such as the classification of aircraft, the design principles behind each key element of aircraft such as wings, fuselage, propulsion, landing gear as well as topics relevant to construction material and techniques. The course will have a strong focus on lessons learned throughout history and evolution of aircraft with analysis of various case studies on successful and not-so-successful aircraft designs in both military and civilian applications.

### BUSINESS ADMINISTRATION

#### **Business Administration 241: 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. **Prereq: Management 101**

#### **Business Administration 242: European Business Law**

An introduction to institutional European Community Law, beginning with an analysis of the basic principles of the European Union and the rules concerning the establishment and functioning of the internal market. Topics examined: consumer protection policy and legal protection, including directives on product liability and on the drawing of contracts away from business premises; elements of environmental EU law which may affect the opening and/or operation of a

business; characteristics and limitations of new types of business (hire-purchase, leasing, factoring, forfeiting); negotiable instruments; technology transfer agreements; patent law; copyright protection; aspects of EU external trade in relation to commercial defense measures such as import and export regimes, and anti-dumping and subsidy measures related to the operation of multinationals within the EU. Ethical and management issues are considered throughout the course.

#### **Business 398: Undergraduate Internship in Business**

This course aims towards junior or senior students so as to offer them an opportunity to apply their so far gained academic knowledge. This internship is an academic course and credit is awarded due to learning not just for working. The course's main goal is to provide students with an opportunity to gain work experience that will enhance and complement their academic learning. The course requirements are designed to provide a structure that will enable students to make connections between what they learn in the classroom and on the job, to further develop analytical and interpersonal skills, and to practice business writing skills.

#### **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 clients 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.

### **ECONOMICS**

#### **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.

#### **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.

#### **Economics 332: International Economics**

The goals and objectives of this course are to facilitate the students understanding of foreign trade flow issues including the causes, the volume and the direction of these flows. Strong emphasis is given to the formulation of industrial trade policies. Topics to be covered include various trade and exchange rate theories, tariffs, and commercial policy, factor movement, regional economic integration, international institutions, international macroeconomic interactions, and international environmental issues and policies. **Prereq: Economics 101 and 102**

#### **Economics/Management 242: Applied Managerial Economics**

This course deals with the application of economic theory and the tools of analysis of decision science to examine how an organization can achieve its aims most efficiently. The course uses the theory of the firm to integrate and link economic theory (microeconomics and macroeconomics), decision sciences (mathematical economics and econometrics), and the functional areas of business (accounting, finance, marketing, personnel and human resource management, and production) and shows how all of these topics are crucial components of managerial decision-making. Emphasis is placed on actual real world managerial decisions. **Prereq: Economics 102, Math 115**

## **FINANCE**

### **Finance 201: Financial Management**

This course provides a comprehensive introduction to the field of financial management. Emphasis is given to the examination of the processes and the methodology of financial statement analysis that are to be applied and used as guidelines in assessing, interpreting and planning financial data to meet the objectives of managing a business entity effectively. Topics covered include goals and functions of financial management, short term financial management decisions, financial statement analysis, planning and financial forecasting, and time value of money. **Prereq: Accounting 102**

### **Finance 202: Entrepreneurial and Corporate Finance**

This course will clearly focus on financing an existing family business, start-ups, corporations and NGO's, including sound financial management practices. The course will go into depth on how to analyze financial statements, create financial forecasts, and evaluate the various ventures. Tools and methods used in determining how much money a venture actually needs in order to be viable will also be covered. Attention will be devoted to the different types of financing alternatives available to an entrepreneur. The venture capital market will be investigated in detail, including self-financing, debt financing, angel financing, and financing from venture capital firms. Students will be encouraged to understand financing issues and options from the vantage points of the entrepreneur, the lender, and the investor. In short, the course will explore the most important financial issues that an entrepreneur may face. **Prereq: Finance 201**

### **Finance 210: International Money and Banking**

The main intention of this course is to provide an overview of some key issues related to money, monetary policy and banking. Major topics covered in the money segment of the course include money creation, the monetary system, policy and control. The banking part of the course begins with the main banking operations and functions and continues with a discussion of the principles of bank asset and liability management. The markets in which banks operate are then described and the operations of banks in these markets are assessed. The risks encountered in banking are addressed, together with the means of controlling such risks. The safety and stability of the banking system is finally considered. **Prereq: Economics 102 and Finance 202**

### **Finance 220: Investment and Portfolio Management**

The principal purpose of this course is to offer a comprehensive introduction to the characteristics and analyses of individual securities as well as the theory and practice of combining securities to form optimal portfolios. It provides an understanding of the general principles of financial and investment decision-making through an examination of asset pricing models and the efficient market hypotheses as well as treatment of interest rates, bond and stock pricing, and bond and stock fund management. **Prereq: Finance 202, Statistics 205**

### **Finance 232: International Finance**

This course, designed for students who wish to build upon the basic economic and financial principles they have acquired in the areas of economic and corporate finance, covers both the management and the markets of multinational and European business. Students are exposed to the international business environment, with emphasis on the challenges financial managers face in the dynamic and rapidly expanding field of international and European finance. More specifically, students thoroughly examine recent developments in the following areas: financial management of an internationally-oriented business, international financial markets, multinational capital structure and the cost of capital, hedging of exchange rate movements and financing of international trade, and the international banking environment. **Prereq: Finance 202, Statistics 205**

**Finance 400: Seminar in Finance**

The purpose of this course is to analyze topics in Financial Management that have received limited coverage or no coverage in the other courses in Finance. The following topics will be covered in the course: Financial Innovations / Derivatives / Venture Capital / International Portfolio Management / International Acquisitions and Valuation / Currency Risk Management. The course topics and theme will vary over time to include the most recent issues affecting the financial sector. **Prereq: Finance 202 and Finance 232**

**MANAGEMENT****Management 101: Introduction to Management**

This course provides students with knowledge of basic management theories and concepts and introduces them to simple case studies relevant to the theoretical background that is covered. The subjects examined, including some insights from international management, are the following: the external and internal environment within which an organization operates; the historical foundations of Management; the social responsibility of business and the relation between business and government; the managerial function of planning; management by objectives; the organizing function and organizational structures; the function of staffing and personnel selection; the function of leading, motivation and job satisfaction and finally, the function of controlling and coordinating a firm's actions to achieve its objectives.

**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.

**Prereq: Management 101**

**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.

**Management 203: Hospitality Management**

Hospitality is a concept deeply rooted into Greek mentality. Intuitive hospitality is offered by all tourism professionals and the country is renowned for this quality. Nevertheless, contemporary developments and cultural trends make it necessary for professionals to be educated according to today's needs. This course covers a wide range of topics that include advance hospitality management theory, impact of socio-economics and technology on hospitality, the future trends, laws relating to business ownership, current practices, legislation and ethics in hospitality practices, operations of revenue, logistics in accommodation for guests, guest handling, and various segments such room, concierge, food and beverage, pools, casinos, beach-bars and restaurants.

**Management 219: Entrepreneurial International Business**

The objective of this course is to present an overview of the global environment within which firms operate. Students are exposed to all aspects of international business and will learn how to interpret international developments and evaluate their consequences for the firm. Among the topics considered are the nature of the multinational corporation, the institutional framework for international business, environmental factors influencing the choice of international investment sites, factors related to business operations in specific countries/regions, and the special circumstances relating to the marketing and financing of international businesses. **Prereq: Economics 101, Management 101**

**Management /Economics 242: Applied Managerial Economics**

This course deals with the application of economic theory and the tools of analysis of decision science to examine how an organization can achieve its aims most efficiently. The course uses the theory of the firm to integrate and link economic theory (microeconomics and macroeconomics), decision sciences (mathematical economics and econometrics), and the functional areas of business (accounting, finance, marketing, personnel or human resource management, and production) and shows how all of these topics are crucial components of managerial decision-making. Emphasis is placed on actual real world managerial decisions. **Prereq: Economics 102, Math 115**

**Management 302: Revenue Management**

With a fixed capacity, a highly disposable product and high fixed costs, hotels are a natural candidate for the application of revenue management. The purpose of this course is to provide a core understanding of the fundamentals of revenue management, which ties into the larger picture of revenue strategy. The course is structured to provide an insightful look into Revenue Management. In today's hotel sector an increasingly complex network of traditional and web based channels have to be managed to insure hotel success. Key questions include: how should you distribute over the web? What should you include on your brand.com website so people book through it? How can you maximise the potential of online travel agents (OTAs)? With the distribution environment both highly complex and constantly evolving, this course will give you comprehensive foundation of current industry practices to help jumpstart your career in this fascinating domain. **Prereq: Accounting 101 or 102**

**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 and 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.

**Management 304: Total Quality Management**

The objective of this course is to provide students with in-depth knowledge and understanding of the importance of quality and customer satisfaction in business competitiveness, and to introduce them to the basic principles and tools of quality management and improvement. The course will focus on the continuous improvement of all aspects of a business, from design through production, to after-sales service, using leadership and employee participation. Topics covered will include the concept of quality and the different quality management philosophies; the basic principles and components of TQM; the link with recognized quality awards (Malcolm Baldrige National Quality Award & European Quality Award); quality assurance systems & ISO 9000 standards; measurement of quality cost; quality improvement tools & techniques. Both secondary readings and real-world cases are provided as a basis for class discussion. **Prereq: Management 312**

**Management 305: HR in Hotel and Tourism**

Hospitality is a concept deeply rooted into Greek mentality. Intuitive hospitality is offered by all tourism professionals and the country is renowned for this quality. Nevertheless, contemporary developments and cultural trends make it necessary for professionals to be educated according to today's needs. This course covers a wide range of topics that include advance hospitality management theory, impact of socio-economics and technology on hospitality, the future trends, laws relating to business ownership, current practices, legislation and ethics in hospitality practices, operations of revenue, logistics in accommodation for guests, guest handling, and various segments such room, concierge, food and beverage, pools, casinos, beach-bars and restaurants.

**Management 310: Human Resource Management**

The course provides an overview of the basic concepts and practices of human resource management of a modern entrepreneurial organization. Its emphasis is on HRM's strategic perspective and well-being of the people for the success of new ventures. It also focuses on the global realities of HRM and the use of modern technologies within an ethical framework. Topics covered include , basic concepts, strategic HRM, legal aspects of HRM, Job analysis & Job Design, human resource planning, employee recruitment, selection, motivation and orientation, performance evaluation and compensation, Training and development, labour relations, safety, health and wellness, social and ethical issues. **Prereq: Management 101**

**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. **Prereq: Management 101, Economics 102**

**Management 322: Business Strategy I**

The aim of this course is to enable students to approach the whole organization: marketing, finance, accounting and personnel functions together. Strategy and structure are the central themes of the course. Topics covered include the business environment, the systems approach, industry analysis, organizational intelligence, organizational structuring, organizational power, strategy development and implementation, leadership styles, management of the external environment, and strategic decision-making. **Prereq: Finance 202, Management 312, Marketing 101**

**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. **Prereq: Management 322**

**Management 330: Entrepreneurship and Innovation**

An in-depth study of the legal, financial, marketing and organizational aspects of starting up, implementing, and successfully managing one's own business venture. The major portion of the course, apart from presentation and discussion of theoretical bases involving starting a new business, consists of construction of a detailed business plan. Class members consider all issues involving initiation, building and controlling a new venture. The main goal is first the analysis and secondly the simulation of an effective business plan based on realistic, contemporary case scenarios. **Prereq: Economics 102, Accounting 102, Management 101**

**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.

**Prereq: Economics 101, 102 and Management 101**

**Management 421: Organizational Leadership and Change**

This course examines leadership and its role in the change process. Students learn how to catalyze action by creating a vision and build momentum for change. In the process, they learn more about themselves as leaders. **(Permission by the instructor)**

**Management 425/MBA-MAN 525: Operations Management**

This course introduces the modeling tools used to manage the complex 21st century business environment. It includes examination of decision analysis, probabilistic models, simulation techniques, regression-based inference and mathematical programming. **(Permission by the instructor)**

**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. **Prereq: MNGT 101: Introduction to Management, Fin 201: Financial Management, Accounting 102**

**Management 470/MBA-BUS 570: International Business**

This course analyzes the major forces that affect the operations of firms across national boundaries. It undertakes an in-depth look at the international political, cultural, and economic forces affecting multinational enterprises' market entry strategy, marketing, financial, production and human resource functions. It examines the conditions needed to create and maintain an international competitive advantage in an increasingly globalized and interactive market environment. **(Permission by the instructor)**

**Management 480/MBA-BUS 580: Strategic Management**

This course develops a framework for assessing the current strategic competitive position as well as future performance outlook for a business entity within a given economic environment. Focus on developing skills for the application of concepts and tools for strategy formulation at corporate levels, and on the design of organization structures and management processes required for effective strategy implementation. Case applications involve strategic issues facing the modern manager of a business enterprise impacted by globalization, and information and technology. **(Permission by the instructor)**

## **MARKETING**

### **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.

### **Marketing 200: Public Relations**

The course introduces students to the theories and techniques involved in planning and carrying out appropriate programs in order to influence public opinion and behavior. The students will receive a comprehensive knowledge of Public Relations, public opinion, public practices and problem solving and prevention. **Prereq: Marketing 101**

### **Marketing 201: Tourism Marketing**

Marketing plays a catalytic role in international tourism. Customers are offered today an enormous selection of choices worldwide, while tourism professionals try to distinguish themselves from competition. This course will initially offer general marketing education and then focus in industry-specific applications of marketing. Topics to be covered include the characteristics of a service, their marketing implications, an overview of mix components – product, price, promotion, place, people – the independence and interdependence of elements, definitions of market segmentation, marketing for hotels and resorts, the product life cycle, the scope, process and role of market research, and secondary information, sources, range and importance. Professional expertise will be brought into class together with case studies of marketing practices.

### **Marketing 202: Services Marketing**

The contemporary economy seems to be dominated by services. Growth in the service sector is expected to continue in the future, exceeding the growth of expenditures on tangible goods. This module builds upon marketing management concepts and theories showing how they can be successfully adapted to the services sector. Services present special challenges that need to be identified and addressed. Therefore, this course will provide students who have a genuine interest in working in the service sector with an opportunity to comprehend the differences between tangible goods and services, to anticipate customer needs in the service encounter, create and maintain customer satisfaction, appreciate the dimensions of service quality and ultimately, generate customer loyalty.

### **Marketing 212: Sales Management**

The main objectives of the course are to introduce the basic concepts of personal selling, to give an explicit and practical view of salespeople's main tasks and working practices, and to discuss and organize the current sales management tactics by analyzing up-to-date, real world situations. Topics include sales management functions and strategies, the personal selling process, account relationship management, territory management, setting sales goals, personnel recruitment and selection, sales training, territory design, leadership, motivating and compensating the sales force, and evaluation and control of sales force performance. **Prereq: Management 101, Marketing 101**

**Marketing 214: Advertising**

The primary objective of this course is to introduce students to the challenging world of advertising and promotion. Advertising is examined as a distinctive element of promotion, together with other communication tools. Current developments of advertising are discussed and an integrative perspective is adopted, due to rapid changes and metamorphoses in the advertising business. Emphasis is given to the role of modern marketing communications, the organizational needs and structure in the field of advertising and promotion, determining advertising objectives and budget, creative strategy, media planning, analysis of broadcast and print media, types of support media and other promotional tools. The large number of advertising techniques and applications, as well as students' everyday exposure to thousands of communication messages, recommend the use of cases, projects, real-world examples and class discussions. **Prereq: Marketing 101**

**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. **Prereq: Marketing 101, Economics 102**

**Marketing 302: Corporate Social Responsibility**

Corporate social responsibility (CSR) has evolved in the business context from a voluntary to a necessary activity which may contribute to a firm's sustainable competitive advantage. During the course students will discuss critically the role of the corporate social responsibility, also will examine and explore sustainable and socially responsible initiatives around the globe and try to address them. The course will deliver a wider knowledge about new challenges and disconnects, between the markets and the economy. **Prereq: Marketing 101 or Management 101**

**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.

**Marketing 318: Global Marketing**

This course addresses marketing management problems, techniques and strategies needed to incorporate the marketing concept into today's global marketplace. More specifically the course deals with modes of foreign market entry, pricing issues, cultural and demographical issues and the impact of foreign currency fluctuations on a firm's performance. **Prereq: Management 101, Marketing 101**

**Marketing 320: Marketing Research**

The major objective of this course is to introduce students to the useful and multi-purpose theory and practice of marketing research. Application of this theory to product, price, place and promotion strategies, as well as to every practical marketing issue confronting a business organization, is one of the main course goals. Topics that are discussed in detail include the role and the environment of marketing research, planning a research project, secondary sources of information, qualitative interviewing methods, survey-interviewing methods, the basics of sampling, major sampling techniques, questionnaire construction, data-processing, analysis and tabulation, and reporting research findings. All topics are dealt with through examples in the context of real business situations. **Prereq: Marketing 101, Statistics 205**

**Marketing 324: E-Marketing**

This course focuses on the key marketing issues in E-Business, comparing marketing concepts in the traditional marketing environment with those employed in E-Business. Topics addressed include Marketing Research on the Web, Personalization/Online Community, Pricing Online, Customer Support and Online Quality, E-Commerce, Business to Business (B2B) Marketing, Advertising/Brand Building, Web Promotion, and "Virtual Legality". **Prereq: Marketing 101**

**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. **Prereq: Marketing 101**

**RESEARCH****Research 299: Research Methods**

This course aims to provide to students a comprehensive knowledge of good research practices. Students will also be exposed to ethical and legal issues related to research. Emphasis will be placed on the ability of the students to apply the appropriate research methodologies and analytical techniques and on acquiring academic writing and presentation skills. **Prereq: Management 101, Marketing 101, Economics 101 and 102**



## DIVISION of HUMANITIES and SOCIAL SCIENCES

### Chair

#### **Dr. Maria Kyriakidou, Professor (Political Science and International Relations)**

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*BA English with Minor in Cinema and Cultural Studies; MA; PhD Comparative Literature, SUNY Stony Brook, N.Y. (Adj)*

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*BS Economics, Middle East Technical University; MS, Ph.D. Economics, University of Massachusetts Amherst (Reg.)*

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*Ph.D. (Education), University of Sheffield, United Kingdom; M.A in Philosophy, University College Dublin, Ireland; RELSA Certificate in English language teaching; B.A Arts, (History and Philosophy), MIC, University of Limerick, Ireland. (Reg)*

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*BA Journalism and Mass Media, School of Journalism and Mass Media, Aristotle University of Thessaloniki; MA Communication and Culture: BA Journalism and Mass Media, School of Journalism and Mass Media, Aristotle University of Thessaloniki (Adj)*

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*BA Politics, New York University; MA Political Science, New School for Social Research; Ph.D., University of Edinburgh (Reg)*

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*Diploma in Civil Engineering, Aristotle University of Thessaloniki, Greece; MSc in Transport & Business Management, Imperial College London*

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*BA Political Science, Hunter College; JD Law, Brooklyn Law School (Adj)*

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*BSc in Economic science, Department of Economics, University of Macedonia; MSc in Economic Management – International and European Economics, Department of Economics, Aristotle University of Thessaloniki; PhD Applied Statistics, Department of Economics, Aristotle University of Thessaloniki*

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*BSc Psychology, University of Crete; MSc (Merit) Child and Adolescent Mental Health, PhD Psychology, City University, London (Reg)*

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*BS Psychology, Aristotle University of Thessaloniki; MS Clinical Neuropsychology, Aristotle University of Thessaloniki*

**Ms. Stella Skopelitou** Adjunct Instructor (Psychology)  
*BS Psychology, Aristotle University of Thessaloniki; MS Criminology, Malmo University*

**Ms Elisavet Tsakiroglou**, Adjunct Instructor (English)  
*BA in Literature with Spanish, University of Hertfordshire, UK; MSc in TESOL and CALL, University of Stirling, Scotland, UK; Postgraduate Certificate in Education, Institute of Education, University of London, UK (Adj)*

**Dr. Vasiliki Vergouli**, Adjunct Professor (Humanities)  
*BA, MA, Ph.D. Philosophy, University of Patras, Greece (Adj)*

**Dr. David Wisner**, Professor (Political Science and International Relations), Executive Director, Michael and Kitty Dukakis Center for Public and Humanitarian Service  
*BA Philosophy, University of South Florida; PhD Modern History, University of Rochester (Reg)*

### **Our educational philosophy**

The teaching and learning environment of the programs is student-centered and interactive. The use of the Moodle Learning Management System accommodates a variety of teaching methods. The well-structured and organized teaching modules, combined with the creation of a welcoming classroom atmosphere, focus on critical analysis, teamwork and communication skills. Students are actively involved in the learning process, applying their knowledge to real or realistic scenarios in order to be able to analyse and interpret what they have learned and how they can improve. In the delivery of the courses, professors apply a combination of theory and practice.

### **Experiential Learning**

The study programs include various co-curricular activities which are part of the Learning in Action philosophy, giving students the opportunity to benefit from field trips and guest speakers related to the courses. In this context, the Division invites professionals in the field and academics for talks, seminars, interactive lectures, etc. Depending on the relevance to the subject matter, these activities take place within the framework of a course or take place on days and times when there is no teaching.

Through the Practicum course included in their curriculum and the internship opportunities provided by the Careers Office, students systematically improve their knowledge and skills in real working environments.

### **THE MICHAEL AND KITTY DUKAKIS CENTER FOR PUBLIC AND HUMANITARIAN SERVICE**

Launched in September 1999 and named after the former Governor and First Lady of the Commonwealth of Massachusetts, the MICHAEL AND KITTY DUKAKIS CENTER FOR PUBLIC AND HUMANITARIAN SERVICE is one of the premier centers for public affairs and international diplomacy in Southeast Europe.

The Dukakis Center provides undergraduate training leading to ACT's renowned BA in Political Science & International Relations, offers opportunities for internships and experiential learning, and organizes a variety of activities and events annually on topics ranging from US foreign policy, EU and NATO enlargement, sustainable development, corporate governance, environmental policy, and historical remembrance. The common thread in these activities is a commitment to inspire youth to take active roles in public affairs.

## GRADUATE PROGRAMS AT THE HSS DIVISION

The graduate Programs offered by ACT include comprehensive Full Time / Part Time graduate programs.

### GRADUATE PSYCHOLOGY PROGRAMS

#### MS IN INDUSTRIAL/ORGANIZATIONAL (I/O) PSYCHOLOGY

ACT's flexible, MS in Industrial Organizational Psychology is aimed at those wishing to turn their experience into expertise, and expertise into leadership. Students will study organizational leadership and change, conflict resolution and management but they will combine such courses with positive psychology and well-being, creating more positive and more profitable workplaces for them and their clients and increasing their personal and professional well-being at the same time.

The Master in I/O Psychology will help you discover the trends and best practices, learn how to increase your emotional intelligence and market it to advance your career in all areas of business, industry, consulting, government, health and education.

#### **Major Aims**

The MS in Industrial/Organizational (I/O) Psychology aims to develop the knowledge, skills and personal qualities of the participants in order to be effectively employed in the field of I/O psychology. Participants will be able to analyze and evaluate contemporary issues and deal with current challenges. The program provides an integrated learning environment which enables participants to increase their potential.

Intellectual, technical and transferable skills are taught through engagement in a variety of teaching and learning resources, such as lectures, presentations, video conferences, site trips, visits and internships.

#### **Major Objectives**

ACT's MSc in Industrial Organizational Psychology program equips students with the requisite knowledge and skills which will allow them to motivate individual productivity; create cohesive, inclusive and diverse teams; improve work-life quality; manage conflict and negotiations successfully; develop emotional intelligence and provide effective coaching. Program graduates create solutions to workplace problems using evidence-based knowledge anchored in quantitative and qualitative research.

Discover the trends and best practices in the field and advance your career in all areas of business, government, healthcare or education.

#### **What we offer**

A highly flexible Master's program that is tailored to your needs:

- 3 out of the 10 courses are offered fully online.
- An interdisciplinary program inviting eager learners and professionals from various walks of life
- A focus on cultivating a new mindset for new results
- An important management and life skill that will help you become more self-reliant and communicate more effectively
- Hands-on experience through internship opportunities as part of the curriculum

**Program requirements and delivery modality**

To fulfill all graduation requirements, students must complete:

- 8 compulsory courses, one of which is a choice between a Thesis or a Placement Project Experience and
- 2 elective courses

All taught courses meet once a week from Monday to Friday for 6 weeks either fully online (100% synchronous online sessions) or in a hybrid fashion, alternating between in-person and online meetings, i.e., there are three in-person meetings & three online meetings each term. All sessions run from 18:00-22:30, including session breaks.

The Thesis and Placement Project courses are arranged flexibly between the student, instructor, and supervisor.

For further information about graduate applications:

Enrolment Management Office  
 Bissell Library, First Floor, 2310-398398  
 Email: admissions@act.edu

**MS IN INDUSTRIAL/ORGANIZATIONAL (I/O) PSYCHOLOGY - PROGRAM OF STUDY**

**Academic Term 1:** PSY 501: Introduction to Industrial/Organizational Psychology - *Online*  
 PSY 502 Research Methods in I/O Psychology (Quantitative & Qualitative) - *Hybrid*

**Academic Term 2:** PSY 508 Psychological Assessment at work and Practical Skill - *Online*  
 PSY 512 Team Diversity & Inclusion in the workplace - *Hybrid*

**Academic Term 3:** MBA-MNGT 521 Organizational Behavior & Change  
 (cross-listed module with the MBA programme) - *Hybrid*  
 PSY 520: Positive Psychology & Well-being Coaching - *Online*

Optional Modules (1 out of the 2 modules)

PSY 560 Trauma Informed Practices in the workplace - *Hybrid*  
 MBA - MNGT 522 Human Resources Management  
 (cross-listed module with the MBA programme) - *Hybrid*

**Academic Term 4  
 plus Summer Term**

MBA MAN 433 Conflict Management & Resolution  
 (cross-listed module with the MBA programme) - *Hybrid*  
 PSY 540 Placement Project Experience **or**  
 PSY 550 Thesis

Optional Modules (1 out of the 2 modules)

PSY 515 Emotional Intelligence (EI) in the Workplace - *Hybrid*  
 PSY 525 Executive Coaching in contemporary organizations - *Hybrid*

## GRADUATE PSYCHOLOGY COURSES

### **Psychology 501: Introduction to Industrial/Organizational Psychology**

This course is designed to introduce you to the field of I/O psychology. The emphasis is on the psychological principles and how they apply in a work context. Topics will include legal issues in employment, selection of employees, performance appraisal, training, leadership, motivation, and group behavior. This course will navigate each of these topics in turn, to provide learners an overview of the broad field that is I/O psychology. Learners will acquire and strengthen their skills as both scholars and practitioners as we blend scientific research with practical application to extend our knowledge of I/O and apply that knowledge to further our learning, inform science, and increase personal effectiveness and success.

### **Psychology 502: Research Methods in I/O Psychology (Qualitative and Quantitative)**

This module equips students with essential research skills in both qualitative and quantitative methodologies preparing them to address organizational problems scientifically. It complements the Thesis module by building foundational skills and knowledge needed for the conceptualization, design and execution of a postgraduate research project, including the application to the Institutional Review Board (IRB) but also the other modules of the program.

### **PSY 508 Psychological Assessment at work and Practical Skills**

This applied module focuses on understanding both the theory and practice of applying psychological assessment in the workplace emphasizing a critical engagement with the nature and effectiveness of different methods and types of assessment. The module has a strong emphasis on applied skills and its linked to PSY 501 Introduction to I/O psychology. Each class session will be structured such that students are exposed more to how psychological assessment at work is practiced within organisations. Generic transferable skills (e.g. communication skills, time management skills, adaptability skills, empathy skills, problem solving skills, interview skills, skills for report writing, project planning and management skills, creativity skills, etc.) will be embedded within teaching on the module but also complemented with additional tutorials/workshops and guest speakers.

### **Psychology 512: Team Diversity and Inclusion in the workplace**

This module introduces concepts of Diversity, Equity, Inclusion & Belonging (DEIB) from a three-level approach, individual, group and organizational with reference to topics such as group productivity, motivation, engagement, and commitment. Linked to modules such as Introduction to I/O psychology, Organizational behavior, and executive coaching in corporate organizations.

### **Psychology 520: Positive Psychology & Well-being coaching**

Positive Psychology is the scientific study of the strengths and virtues that enable individuals and communities to thrive. There is a growing interest in Positive Psychology and its benefits to professionals in health care, teaching, criminal justice, human resources and social services. Positive Psychology focuses on how to live a meaningful and fulfilling life, cultivate what is best within people, and enhance people's experiences of love, work, and play. Students will be educated on evidence-based interventions designed to enhance well-being, resilience, change, mindfulness, realistic optimism, addiction, self-respect, positive behavior and workplace satisfaction.

### **Psychology 540: Placement Project Experience**

Students who pursue the Placement Project Experience Track in MS I/O psychology will have the opportunity to apply knowledge gained in coursework and undertake a supervised learning experience in the workplace. Students should demonstrate an

ability to search, shortlist and secure appropriate placement in an area relevant to their programme of study. Students need to find and secure their own placement, supported by ACT. A preparation/preplacement session will be offered to students prior to registering for this module to help them get ready for their placement. All potential placement opportunities will be subject to prior approval by the module leader. During the 6-month placement project experience, students are expected to participate in the mandatory pre-placement briefings and workshops (e.g. with topics on employability skills, how to engage independently with employers through interviews and events to secure a placement, etc.) and undertake a project focused on an issue agreed with the placement organization. The project ensures that students gain practical work experience in a specific job role and employ evidence-based I/O psychology practices in business settings.

**Psychology 550: Thesis/Dissertation**

Students who pursue the Thesis Track in MS I/O psychology must produce original work in the form of an empirical research project with human participants. In this module students will have the opportunity to consolidate and extend their knowledge and understanding of systematic literature review and research designs by engaging in a rigorous piece of personal and independent research project arising out of I/O psychology and allied to their professional field. Students will be supported every step of the way: learning about what research is; selecting a topic and a research question; reviewing the relevant literature; designing an appropriate methodology to collect data; and analysing those data. Additionally, students will be encouraged to cultivate time management and organizational skills which will be necessary to successfully complete the thesis/dissertation. Students must attend dissertation preparation sessions and will additionally be supported throughout the dissertation process by a supervisor.

**Psychology 515: Emotional Intelligence in contemporary organizations**

Emotional Intelligence (also referred to as EI and EQ) is about an individual's ability to recognize and regulate their own emotions and the emotions of others in order to achieve their goals. This course will explore various models of EQ, the ethics of incorporating EI assessments and training in various situations, criticisms of the EQ concept and components of EI, and how to strengthen your own Emotional Intelligence. By learning about EQ, you can better determine whether or not your business or company would benefit from EQ training, learn how to strengthen your own EI skills, and understand the relationship between personality and Emotional Intelligence as well as the role that EI plays in those with personality or psychiatric disorders and those on the autism spectrum.

**Psychology 525: Executive coaching and leadership mentoring**

This optional module is designed to provide students with the tools and techniques necessary for self-improvement, effective decision-making, and enhanced interpersonal communication. It focuses on the personal and professional growth of executives through tailored one-on-one coaching, which helps them identify and work on their strengths and development areas. Students will learn about the role of self as a coach and instrument of change, study coaching within systems dynamics, and understand how to create productive and fulfilling relationships in the coaching role. Students will have the opportunity to connect with other senior-level professionals while learning through a combination of interactive classroom instruction, reading, self-reflection, and hands-on practice in individual and group & team coaching.

**Psychology 570: Trauma Informed Practices in Education**

This course will introduce students to the concept of trauma and build foundational awareness of trauma-informed approaches. Students will learn how to incorporate key trauma principles into a given organizational culture and provide specific interventions to address the consequences of trauma. Apart from the educational environments, the course will refer to a range of disciplines and professional settings and present the benefits of creating trauma-informed workplaces.

## UNDERGRADUATE PROGRAMS AT THE HSS DIVISION

The Division of Humanities and Social Sciences offers the following undergraduate academic programs:

### Degree Programs

- Bachelor of Arts in English, Concentrations in Language & Literature and Communication & New Media
- Bachelor of Arts in International Relations
- Bachelor of Science in Psychology
- Minor in Diplomacy and International Relations (for non-IR majors only)
- Minor in Communication Studies (for non-English majors only)
- Minor in English (for non-English majors only)
- Minor in Psychology (for non-Psychology majors only)

### Certificate Programs

- Geopolitics and Strategy
- NGO Management
- Hellenic Studies
- Teaching English as a Foreign Language (TEFL)
- Resilience and Wellbeing
- Content Writing and the Digital Landscape

## DEGREE PROGRAMS

### BACHELOR OF ARTS IN ENGLISH

The Bachelor of Arts in English offers a synthesis of traditional and contemporary course content. Students may choose between two different concentrations, Language & Literature or Communication & New Media. The program aims to provide students with vital knowledge in the subject areas of literature, social media and communication, linguistics, and culture; cultivate students' analytical and creative skills for intellectual and professional purposes; enable them to explore the evolution of English studies as it intersects with a variety of academic disciplines; help them become more astute readers, writers, thinkers, and communicators; challenge them to operate more effectively in multicultural, interdisciplinary environments, both as students and future professionals; and inspire confidence, open-mindedness, and personal and professional success.

### Degree Requirements

In order to receive the BA degree, the student must have fulfilled all the GER and major requirements and must have completed at least 121 US credit hours with an overall G.P.A. of 2.0 or better. According to NECHE Standards, students must complete at least one fourth of their undergraduate program, including advanced work in the major or concentration, at the institution awarding the degree. As a consequence, all candidates for an ACT degree must have been in residence at the College during the last two semesters of full time instruction, assuming availability and equivalency of transferable courses.

**Open University degree structure:** The program in English is currently validated by Open University: under this scheme, 24 are out of the 40 courses required for a Bachelor's degree are validated by Open University. Students must necessarily take the fourth year courses at ACT. Successful students will receive a Bachelor's degree from Open University in addition to the ACT degree for a single course of studies by meeting the following common set of requirements (in addition to meeting General Education Requirements)—courses highlighted in bold are validated by Open University.

**Language & Literature Concentration: Required Courses level 4**

English 120: Introduction to Literature (OU) English 210: Creative Writing (OU)  
 English 224: Post World War II British and American Drama (OU) English 273: Introduction to Linguistics (OU)  
 English 235: Introduction to Literary Theories and Criticism (OU)  
 English 299: Teaching Approaches and Methods Past and Present (OU)  
 English 250: Advanced Writing and Professional Communication (OU)  
 One major elective level 4 (see below)

**Language & Literature Concentration: Required Courses level 5**

English 268: Women and Literature (OU)  
 English 274: Applied Linguistics in Theory and Practice (OU)  
 English 230: British Literature and Culture (OU)  
 Eng/Hum 246: American Literature and Culture (OU) Comm 327: Research Methods and Practice (OU)  
 English 325: Pedagogical Foundations in Second Language Acquisition (OU)  
 Two major electives level 5 (see below)

**Language & Literature Concentration: Required Courses level 6**

English 259: Postcolonial Literature (OU)  
 English 320: The Other in Literature and Media (OU)  
 English 340: Comparative Literature (OU)  
 English 380: The Business of Literature (OU) English 390 Senior Thesis I (OU)  
 English 395 Senior Thesis II (OU)  
 Two major electives level 6 (see below)

**Language & Literature Concentration: Major Elective Courses level 4 may be selected from among the following:**

English 221: Short Fiction (OU)  
 English 275: Sociolinguistics: Introduction to Language and Society (OU) English 220: Introduction to Twentieth Century Poetry and Drama (OU) Comm 127: Communication, Culture and Society (OU)  
 His 201: Women in Modern Times (OU)  
 Soc Sc 210: Introduction to Global Studies and Human Geographies (OU)  
 Comm 215: Foundations of Contemporary Media Comm 219: Introduction to Film Studies (OU)  
 Comm 270: Digital Content and Storytelling (OU)

**Language & Literature Concentration: Major Elective Courses level 5 may be selected from among the following:**

CS 206: Web Development (OU)  
 English 292: Literature, Art and Culture in language education (OU)  
 English 284: Literature through Performance (OU)  
 English 350: Semiotics and Discourse Analysis: Writing for Social Change (OU)  
 Hum 221: History on Film/Film on History (OU)  
 Comm 217: Media in Transition (OU)  
 CS 206: Web Development (OU)  
 CS 306: Advanced Web Development (OU)  
 Comm 315: Intercultural Understanding and Communication  
 Comm 233: Introduction to Journalism

or one of the marketing electives:

Marketing 200: Public Relations/Marketing 214: Advertising/Socsc 215: Studies in Media and Contemporary Society

**Language & Literature Concentration: Major Elective Courses level 6 may be selected from among the following:**

English 370: Literature and Film (OU)  
 English 310: Design and Evaluation of Teaching and Assessment Materials (OU)  
 Mkt 324: E-Marketing (OU)  
 CS 219: Video Game Design with Unity and 3ds Max (OU)  
 Pract 300 (OU)  
 Comm 317: Communicating Through New Media (OU)  
 Comm 327: Media Theory (OU)  
 Cojmm 345: Media Ethics in the digital age (OU)

**Communication & New Media Concentration: Required Courses level 4**

English 120: Introduction to Literature (OU)  
 English 224: Post World War II British and American Drama (OU)  
 English 250: Advanced Writing and Professional Communication (OU) Comm 215: Foundations of Contemporary Media (OU)  
 Comm 219: Introduction to Film Studies (OU)  
 Comm 270: Digital Content and Storytelling (OU)  
 Two major electives level 4 (see below)

**Communication & New Media Concentration: Required Courses level 5**

English 230: British Literature and Culture (OU)  
 Comm 315: Intercultural Understanding and Communication (OU) Comm 233: Introduction to Journalism (OU)  
 Eng/Hum 246: American Literature and Culture (OU)  
 Comm 327: Research Methods and Practice (OU)  
 Two major electives level 5 (see below)  
 One marketing elective (see below)

**Communication & New Media Concentration: Required Courses level 6**

English 320: The Other in Literature and Media (OU)  
 Comm 227: Media Theory (OU)  
 Comm 317: Communicating through New Media (OU) Comm 345: Media Ethics (OU)  
 English 390 Senior Thesis I (OU) English 395 Senior Thesis II (OU)  
 Two major electives level 6 (see below)

**Communication & New Media: Major Elective Courses level 4 may be selected from among the following:**

English 210: Creative Writing (OU)  
 English 221 Short Fiction (OU)  
 English 273: Introduction to Linguistics  
 English 235: Introduction to Literary Theories and Criticism  
 English 275: Sociolinguistics: Introduction to Language and Society (OU)  
 English 220: Introduction to Twentieth Century Poetry and Drama (OU)  
 English 299: Teaching Approaches and Methods Past and Present (OU)  
 Comm 127: Communication, Culture and Society (OU)  
 His 201: Women in Modern Times (OU)  
 Soc Sc 210: Introduction to Global Studies and Human Geographies (OU)

**Communication & New Media: Major Elective Courses level 5 may be selected from among the following:**

CS 206: Web Development (OU)  
 English 292: Literature, Art and Culture in language education (OU)  
 English 284: Literature through Performance (OU)  
 English 350: Semiotics and Discourse Analysis: Writing for Social Change (OU)  
 Hum 221: History on Film/Film on History (OU)  
 Comm 217: Media in Transition (OU)  
 CS 306: Advanced Web Development (OU)  
 English 274: Applied Linguistics in Teaching Theory and Practice  
 English 268: Women and Literature  
 English 325: Pedagogical Foundations in Second Language Acquisition  
 and one of the marketing electives:  
 Marketing 200: Public Relations/Marketing 214: Advertising/Socsc 215: Studies in Media and Contemporary Society

**Communication & New Media: Major Elective Courses level 6 may be selected from among the following:**

English 370: Literature and Film (OU)  
 English 310: Design and Evaluation of Teaching and Assessment Materials (OU)  
 Mkt 324: E-Marketing (OU)  
 CS 219: Video Game Design with Unity and 3ds Max (OU)  
 Marketing 324: E-Marketing (OU)  
 Pract 300 (OU)  
 English 259: Postcolonial Literature  
 English 340: Comparative Literature  
 English 380: The business of Literature  
 Free Electives: Three (3)

**BACHELOR OF ARTS IN ENGLISH  
CONCENTRATION: COMMUNICATION & NEW MEDIA  
SUGGESTED PROGRAM OF STUDY**

**Year One**

English 101  
History 120  
Politics 101  
Philosophy 101  
Computer Science 101  
Math 100  
Economics 101 or 102  
English 102  
English 120 (OU)  
Biology 101 or Ecology 110 or Nutrition 130

**Year Two**

English 203  
English 224 (OU)  
English 250 (OU)  
Comm 215 (OU)  
Comm 219 (OU)  
Major Elective (OU)  
Computer Science 108  
Anthropology 101 or Sociology 101 or Psychology 101  
Major Elective  
Comm 270 (OU)

**Year Three**

English 230 (OU)  
English Hum 246 (OU)  
Philosophy 203  
Free Elective  
Major Elective  
Comm 315 (OU)  
Marketing 200/Marketing 214/Soc Sc.215 (OU)  
Comm 233 (OU)  
Comm 327 (OU)  
Major Elective

**Year Four**

English 390 (OU)  
English 320 (OU)  
Comm 317 (OU)  
Free Elective  
Major Elective  
English 395 (OU)  
Comm 227 (OU)  
Comm 345 (OU)  
Free Elective  
Major Elective

**BACHELOR OF ARTS IN ENGLISH  
CONCENTRATION: LANGUAGE AND LITERATURE  
SUGGESTED PROGRAM OF STUDY**

**Year One**

English 101  
History 120  
Politics 101  
Philosophy 101  
Computer Science 101  
Math 100  
Economics 101 or 102  
English 102  
English 120 (OU)  
Biology 101 or Ecology 110 or Nutrition 130

**Year Two**

English 203  
English 224 (OU)  
English 235 (OU)  
English 273 (OU)  
Computer Science 108  
Anthropology 101 or Sociology 101 or Psychology 101  
English 210 (OU)  
Major Elective  
English 250 (OU)  
English 299 (OU)

**Year Three**

English 230 (OU)  
English Hum 246 (OU)  
English 274 (OU)  
Philosophy 203  
Free Elective  
English 268 (OU)  
English 325 (OU)  
Major Elective  
Comm 327 (OU)  
Major Elective

**Year Four**

English 390 (OU)  
English 320 (OU)  
English 380 (OU)  
Free Elective  
Major Elective  
English 395 (OU)  
English 259 (OU)  
English 340 (OU)  
Free Elective  
Major Elective

## **BACHELOR OF ARTS IN POLITICAL SCIENCE AND INTERNATIONAL RELATIONS**

ACT's renowned BA in PS&IR features a dynamic contemporary student-centered civic education. It trains youth for leadership roles in regional and international affairs and contributes meaningfully through academic instruction, applied research, and professional outreach. The program of studies is particularly strong in American and EU politics, international law and organizations, gender, globalization, and contemporary Balkan and Aegean affairs.

Students majoring in PS&IR have ample opportunities to interact directly with senior practitioners in public affairs under the auspices of the Michael and Kitty Dukakis Center for Public and Humanitarian Service and the Lucy Center for Balkan Studies. Our graduates have had outstanding success in post-graduate study, gaining admission to the most prestigious European and American universities, and experiencing success at the highest levels of professional life.

### **Degree Requirements**

In order to receive the BA degree, the student must have fulfilled all the GEP and major requirements and have completed at least 121 US credit hours with an overall G.P.A of 2.0 or better. All PS&IR students take a two-semester sequence Senior Thesis I and II course. According to NECHE Standards, students must complete at least one fourth of their undergraduate program, including advanced work in the major or concentration, at the institution awarding the degree. As a consequence, all candidates for an ACT degree must have been in residence at the College during the last two semesters of full time instruction, assuming availability and equivalency of transferable courses. 77

**Open University degree structure:** The program in Political Science and International Relations is currently validated by Open University: under this scheme, 24 are out of the 40 courses required for a Bachelor's degree are validated by Open University. Students must necessarily take the fourth year courses at ACT. Successful students will receive a Bachelor's degree from Open University in addition to the ACT degree for a single course of studies by meeting the following common set of requirements (in addition to meeting General Education Requirements)—courses highlighted in bold are validated by Open University.

### **Major Requirements**

#### **PS&IR requirements level 4**

Politics 201 Introduction to Political Science and International Relations: Theories and Issues (OU)

European Studies 210 Foundations of European Integration (OU)

History 201 Women in Modern Times (OU)

Social Science 210 Introduction to Global Studies and Human Geographies (OU)

Economics 101 Introductory Macroeconomics (OU)

Politics 230 Comparative Politics (OU)

English 250 Advanced Writing and Professional Communication (OU)

Research 210 Research Methods and Analysis (OU)

**PS&IR requirements level 5**

History 221 Modern World History (OU)  
 Politics 207 Modern Greek Politics and Issues in Greek foreign policy (OU)  
 Politics 233 International Law and Organisations (OU)  
 Politics 202 Political Theory (OU)  
 Politics 306 Contemporary Development Issues (OU)  
 Three major electives level 5 (see below)

**PS&IR requirements level 6**

History 331 Modern Greek History (OU)  
 Politics 301 War and Human Security in the Modern World (OU)  
 Politics 350 Senior Thesis I (OU)  
 Politics 351 Senior Thesis II (OU)  
 Social Science 349 Contemporary Globalization (OU)  
 Three major electives level 6 (see below)

**PS&IR major electives (OU Level 5) may be selected from among the following:**

Humanities 221 Film in History, History in Film (OU)  
 Politics 229 The US Federal Government (OU)  
 Social Science 215 Studies in Media and Contemporary Society (OU)  
 Politics 240 International Migration (OU)  
 Politics 250 Politics and New Technologies (OU)  
 English 350: Advanced Writing for Social Change (cross listed with the English program)  
 English/Hum 246: American Literature and Culture (cross listed with the English program)  
 Comm 315: Intercultural Understanding and Communication (cross listed with the English program)  
 Management 307 Negotiation and Conflict Resolution (cross listed with the Business program)

**PS&IR electives (OU Level 6) may be selected from among the following:**

Politics 304 Women, Power, and Politics (OU)  
 Human Rights (OU)  
 Politics 332 Human Rights (OU)  
 Politics 333 Diplomacy (OU)  
 Politics 334: Global Security Challenges (OU)  
 Social Science 323 Race and racisms (OU)  
 Practicum 300 (OU)  
 Psychology 330 - Psychology of immigration (cross listed with the Psychology program)  
 ENG 320- The Other in Literature and Media (cross listed with the English program)  
 Management 308 Leadership Development (cross listed with the Business program)  
 Management 460 Contemporary Project Management (cross listed with the Business program)

**d. Other requirements**

Three free electives (to be chosen in concert with an academic advisor)

## BACHELOR OF ARTS IN PS & IR SUGGESTED PROGRAM OF STUDY

### Year One

English 101  
Math 100  
Philosophy 101  
History 120  
Politics 101  
English 102  
CS 101  
Anthropology 101, Psychology 101 or 204, or Sociology 101  
Social Science 210 (OU)  
Politics 201 (OU)

### Year Three (Level 5):

Politics 207 (OU)  
Politics 202 (OU)  
Major Elective level 5 (OU)  
Major Elective level 5 (OU)  
Philosophy 203  
History 221 (OU)  
Politics 306 (OU)  
Politics 233 (OU)  
Major Elective level 5 (OU)  
Free Elective

### Year Two

English 203  
Economics 101(OU)  
English 120, Art 120 or Art 121, Art 130, or Music 120  
Research 210 (OU)  
Free Elective  
Politics 230 (OU)  
English 250 (OU)  
History 201 (OU)  
European Studies 210 (OU)  
Science GER

### Year Four

Social Science 349 (OU)  
Politics 350 (OU)  
History 331 (OU)  
Major Elective level 6 (OU)  
GER elective  
Politics 301 (OU)  
Politics 351(OU)  
Major Elective level 6 (OU)  
Major Elective level 6(OU)  
Free Elective

## BACHELOR OF SCIENCE IN PSYCHOLOGY

ACT's B.Sc. Hons in Psychology is designed to be a novel and contemporary programme up to date to the academic and professional trends. It is based on prevalent UK and US standards like all other ACT undergraduate programs. It is characterized by a firm grounding in the disciplinary foundations to the Psychology degree, such as theory, main concepts, methods and debates in psychology. Further requirements familiarize the students with clinical, developmental, educational, counseling, experimental, social, forensic psychology and neuroscience. They also comprise practical experience of designing and carrying out psychological research, as well as evaluating and reporting its results. Students learn to work with data, synthesize hypotheses and use information technology. As a capstone project, students are required to write a senior thesis spread across two terms. The core programme focus is complemented by the Psychology (Major) electives students will take in their final two years in residence, which in turns have a theoretical, practical, and professional character.

### **Degree requirements**

In order to receive the BSc degree, the student must have fulfilled all the GEP and major requirements and have completed at least 121 US credit hours with an overall G.P.A of 2.0 or better. All Psychology students take a two-semester sequence Senior Thesis I and II course. According to NECHE Standards, students must complete at least one fourth of their undergraduate program, including advanced work in the major or concentration, at the institution awarding the degree. As a consequence, all candidates for an ACT degree must have been in residence at the College during the last two semesters of full time instruction, assuming availability and equivalency of transferable courses.

**Open University Degree Structure:** The programme in Psychology is validated by Open University: under this scheme, 24 are out of the 40 courses required for a Bachelor's degree are validated by Open University. Students must necessarily take the fourth year courses at ACT. Successful students will receive a Bachelor's degree from Open University in addition to the ACT degree for a single course of studies by meeting the following common set of requirements (in addition to meeting General Education Requirements).

#### **Psychology requirements level 4**

History 201 – Women in Modern Times (OU) Psychology 101-Introduction to Psychology  
 Psychology 120 - Developmental Psychology I (Pre-natal and pre-school years) (OU)  
 Psychology 121 - Developmental Psychology II (Child to Adulthood) (OU)  
 Psychology 130 – Cognitive Psychology (OU)  
 Psychology 150 - Psychophysiology of Behavior (OU) Psychology 204 - Social Psychology (OU)  
 Psychology 211- Historical, Philosophical & Research Foundations of Psychology (OU)  
 One major elective level 4 (see below)

#### **Psychology requirements level 5**

Psychology 202 - Personality Theories (OU)  
 Psychology 205- Research methods and Statistics (OU)  
 Psychology 206- Research methods and Qualitative Analysis (OU)  
 Psychology 218 - Clinical Psychology I: Psychopathology (OU)  
 Psychology 221 - Neuropsychology (OU) Psychology 250 – Psychopharmacology (OU)  
 Two major electives level 5(OU)

#### **Psychology requirements level 6**

Psychology 305- Counselling and Psychotherapy (OU) Psychology 350 - Senior Thesis I (OU)  
 Psychology 351 - Senior Thesis II (OU)  
 Psychology 400 - Clinical Psychology II: Psychological Assessment (OU)  
 Four major electives level 6 (OU)

#### **Major Elective Level 4 Courses**

Psychology 170-Personal Development and Employability (OU)  
 English 250-Advanced writing and Professional Communication (OU) (*cross listed with the English program*)

#### **Major Electives Level 5 Courses**

Psychology 200 - Adulthood & Aging (OU)  
 Psychology 215 - Positive Psychology (OU)  
 Psychology 240 - Forensic Psychology (OU)  
 Psychology 255 - Sports Psychology (OU)  
 Management 307-Negotiation & Conflict Resolution (*cross listed with the Business program*)

#### **Major Electives Level 6 Courses**

Practicum 300 (OU)  
 Psychology 303 - Educational Psychology: Inclusive & Special Education (OU)  
 Psychology 310 –Organizational psychology (OU)  
 Psychology 320 – Dialectical therapy (OU)  
 Psychology 330 - Psychology of immigration (OU)  
 Psychology 340 - Psychology of addiction (OU)

Psychology 360-Advanced Applied Statistics for Psychologists (OU)  
 Psychology 370-Psychology of Trauma (OU)  
 Management 310-Human Resource Management & Growth (OU) (*cross listed with the Business program*)

**Other Degree Requirements**

Psychology 101 – Introduction to Psychology  
 Two Free electives (to be chosen in concert with the academic advisor)

**BACHELOR OF SCIENCE IN PSYCHOLOGY  
 SUGGESTED PROGRAM OF STUDY**

**Year One**

CS 101  
 English 101  
 English 102  
 History 120  
 History 201 (OU)  
 Math 100  
 Politics 101  
 Philosophy 101  
 Psychology 101  
 Psychology 120 (OU)

**Year Two**

English 120, Art 120 or Art 121, or Music 120  
 English 203  
 Psychology 121 (OU)  
 Psychology 130 (OU)  
 Psychology 150 (OU)  
 Psychology 204 (OU)  
 Psychology 211 (OU)  
 Science (Biology 101 or Biology 112)  
 One Psychology Elective level 4 (OU)

**Year Three**

Economics 101 or Economics 102  
 Philosophy 203  
 Psychology 202 (OU)  
 Psychology 205 (OU)  
 Psychology 206 (OU)  
 Psychology 221 (OU)  
 Psychology 250 (OU)  
 Psychology 218 (OU)  
 Psychology Elective level 5 (OU)

**Year Four**

Psychology 305 (OU)  
 Psychology 350 - Senior Thesis I (OU)  
 Psychology 351 - Senior Thesis II (OU)  
 Psychology 400 (OU)  
 1 Free elective  
 4 Psychology Electives level 6 (OU)  
 1 Free elective

## MINORS

### **MINOR IN DIPLOMACY AND INTERNATIONAL RELATIONS** (for non-IR majors only)

- Politics 201
- Politics 233
- European Studies 210

and then three additional PS&IR electives (to be selected in consultation with a PS&IR advisor) from the ones below::

- Politics 101
- History 201
- Politics 230
- History 221
- History 331
- Politics 207
- Politics 240
- Politics 304
- Politics 301
- Politics 332
- Politics 334
- Soc sc 349
- Soc sc 210
- Politics 250

*\*Students may take Politics 101 as both a General Education Requirement and an International Relations elective.*

### **MINOR IN COMMUNICATION STUDIES** (for non-English majors only)

- Comm 215 Foundations of Contemporary Media
- Comm 317 Communicating Through New Media

Four elective courses from the following:

- Comm 233 Introduction to Journalism
- Comm 227 Media Theory
- Comm 219 Introduction to Film Studies
- Comm 270 Digital Content and Storytelling
- Comm 315 Intercultural Understanding and Communication
- Mktg 200 Public Relations
- Mktg 214 Advertising
- Anth 349 Intercultural Communication
- Hum 221 Film on History/History on Film
- English 350 Advanced Writing/Writing for Social Change
- English 250 Advanced Writing and Professional Communication

### **MINOR IN ENGLISH** (for non-English majors only)

- English 120: Introduction to Literature
- English 224 Post World War II British and American Drama or English 221 Short Fiction
- English 230 British Literature and Culture or Eng/Hum 246 American Literature and Culture

Three elective courses from the following

- English 259 Postcolonial Literature
- English 268 Women and Literature
- English 340 Comparative Literature

- English 235 Introduction to Literary Theories and Criticism
- English 350 Advanced Writing/Writing for Social Change
- English 210 Creative Writing
- English 320 The Other in Literature and Culture
- English 380 The Business of Literature

### **MINOR IN PSYCHOLOGY** (for non-Psychology majors)

- Psychology 101: Introduction to Psychology
  - Psychology 204: Social Psychology (OU)
  - Psychology 205: Research Methods & Statistics (OU)
- And three of the following:
- Psychology 130: Cognitive Psychology (OU)
  - Psychology 206: Research Methods & Qualitative Analysis (OU)
  - Psychology 215: Positive Psychology (OU)
  - Psychology 303: Educational Psychology: Inclusive & Special Education (OU)
  - Psychology 310: Organizational Psychology (OU)
  - Psychology 320: Dialectical Therapy (OU)
  - Psychology 340: Psychology of Addiction (OU)
  - Psychology 370: Psychology of Trauma (OU)

## **CERTIFICATE PROGRAMS**

Comprised of four courses, ACT Certificate Programs offer the opportunity for the development of a 'skills set' in a field of choice.

### **GEOPOLITICS AND STRATEGY**

- Soc Sc 349 Contemporary Globalization
- Pol 301 War and Human Security in the Modern World
- Management 341 Business in Greece and the EU
- Pol 334 Global Security Threats

### **NGO MANAGEMENT**

- Pol 233 International Law and Organisations
- Mrkt 200 Principles of Public Relations
- Phil 203 Ethics
- Marketing 324 E-marketing

### **HELLENIC STUDIES**

ACT offers to non-degree students the opportunity to gain a broader understanding of the rich heritage of Hellenism, both ancient and modern. Courses are taught by leading practitioners throughout the academic year, including during accelerated summer sessions. The certificate program consists of four courses one of which can be the language course, and study trips organized by the Office of Academic and Student Affairs.

**Hellenic Studies courses include the following:**

- one from: Greek 101, Greek 104, 201, 202 (as the language course) and three from:
- History 231, 232, 301
- Humanities 120, 209
- Politics 207
- Art History 121, 220, 221, 224
- Music 120

**TEACHING ENGLISH AS A FOREIGN LANGUAGE (TEFL)**

ACT offers intensive TEFL programs at an Introductory and Advanced level. The Introductory Program is open to beginners with little formal teacher training, and university students or graduates, while the Advanced level program is aimed at relatively experienced teachers. For both programs, a good command of the English language at a proficiency level is expected. The programs offer participants a solid grounding in current approaches to teaching English as a foreign language, with an emphasis on practical applications in classroom settings.

Guided by an expert team of highly qualified TEFL instructors currently teaching at ACT, participants in the introductory program are taught to develop lesson plans, manage a classroom, design teaching materials for particular age groups, and teach grammar, listening/speaking, reading/writing and vocabulary.

The advanced program is aimed at teachers with some classroom experience who wish to enhance their teaching effectiveness, as well as those teachers who seek practical experience and new ideas for creative teaching. Participants in the advanced level course acquire a deeper understanding of both the theory and practice of teaching English as a foreign language. Building on the participants' prior knowledge of the standard components of an introductory TEFL program, the advanced program addresses more specialized areas of the field such as educational technology, teaching through literature, the age factor in teaching, testing and evaluation and other field-related modules.

Participants in both programs will have the opportunity to observe English classes being taught at Anatolia College and practice teaching. The program is offered under ACT's Lifelong Learning Center.

**CONTENT WRITING AND THE DIGITAL LANDSCAPE**

- Comm 270: Digital Content and Storytelling
- Comm 233: Introduction to Journalism
- Comm 317: Communicating through New Media
- English 210: Creative Writing

**RESILIENCE AND WELLBEING**

This certificate will offer an understanding of a variety of topics including and it is designed for learners who wish to develop an appreciation of wellbeing. Improving individual wellbeing will also contribute to greater wellbeing in the teams and systems in which professionals work. Participants will receive individualized and interdisciplinary learning both in and outside the class with hands-on experiences.

The certificate program consists of four academic courses from the HSS Division (Psychology program):

- PSY 101: Introduction to Psychology
- PSY 215: Positive Psychology
- PSY 310: Organizational Psychology
- PSY 330: Psychology of immigration

## UNDERGRADUATE COURSES

### INTERNATIONAL RELATIONS (HISTORY, POLITICS, EUROPEAN STUDIES, PUBLIC SERVICE)

#### **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. **May be taken as Social Sciences/Group C GER**

#### **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. **Required for all PS&IR majors. OU Level 4.**

#### **History 221: Modern World History**

This course examines global history from 1900's to the present, addressing key themes and trends in the political, cultural, social, and intellectual landscapes of the period. While emphasis will be on interpreting the century's historical trajectories, the course will also seek to historicize globalization, evaluate the concepts of globality and transnationalism, and study critical responses to globalization. **Required for all PS&IR majors. OU Level 5. Prereq: History 120**

#### **History 230: Byzantine History**

A survey of the political, institutional, religious and cultural history of the Byzantine Empire from the reforms of Diocletian and the conversion of Constantine up to the fall of Constantinople. Special attention will be paid to topics involving civilization, theological controversy, and the relations of the Empire with the Arabs, Slavs, and Western Europeans.

#### **History 232: Thessaloniki: A City and its Inhabitants**

Throughout its long history Thessaloniki has been home to many different peoples and cultures. The purpose of this course is to review the history of the city and to focus on the different ethnic communities which have inhabited it, including principally Greeks, Turks, Jews, and Armenians, among others. The course will consider the establishment of the city in Hellenistic times, its Roman and Byzantine periods, the impact of the Ottoman occupation, the coming of the Sephardic Jews, the effects of the Balkan and the two World Wars as well as those of the Holocaust on the city. It will include visits to such important cultural sites as the Archeological Museum, the Museum of Byzantine culture, the Jewish Museum of Thessaloniki, Roman antiquities and Ottoman buildings.

#### **History 301: History of Ancient Greece**

This course presents a survey of ancient Greek history from the Minoan through the Hellenistic period. The course follows a broad chronological account, but at the same time strongly emphasizes thematic trends and various aspects of social, economic and ideological history, including such institutions and values as political ideas, drama, city states, scientific and philosophical inquiry, trade, colonies, daily life, and gender. A variety of primary and secondary source materials will be employed to explore better who the ancient Greeks were and what their legacies have been.

### **History 331: Modern Greek History**

The purpose of this course is to explore in detail some of the main themes in modern Greek history. The course will investigate such topics as immigration and refugees, war and its consequences, the right and the left in Greek politics, the city/country divide and the process of urbanization, and the Greek family and gender identity. The course will also examine modern poetry and literature, and traditional and modern forms of music. **Required for all PS&IR majors. OU Level 6.**

**Prereq: History 120**

### **Politics 101: Contemporary Politics**

The purpose of this course is threefold. First, it explores various dimensions of what political scientists call “governance” and what psychologists call “Machiavellian Intelligence,” namely those instances in our daily lives where humans, by their very nature, engage in activity one might call “political.” Second, the course examines different aspects of the formal, systematic study of political phenomena, commonly known as the academic discipline of political science. Finally, it considers basic elements of negotiation, from simple exchanges with neighbors to formal diplomatic relations in contemporary international relations. **GER requirement**

### **Politics 201: Introduction to International Relations: Theories and Issues**

This course examines the key actors and issues in the field of international relations. It focuses in particular on various institutional, social, and economic issues of current interest. At the same time the course provides an introduction to the main classic and contemporary trends in international relations scholarship. **Required for all PS&IR majors. OU Level 4**

### **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. **Required for all PS&IR majors. OU Level 5.**

### **Politics 207: The Modern Greek Nation-State and issues in Greek foreign policy**

This course analyzes contemporary Greek society by exploring some of its institutions and structures as well as its sociopolitical practices. A thematic organization of the course allows for particular idiosyncrasies of the Greek state to be investigated in depth. Topics for examination are: the Modern Greek state structure, a civil society indicative of clientelism and populism, public administration and the role of political parties, the Greek Orthodox Church and religion, the Greek economy and the European Union, and the role of geopolitics. **Required for all PS&IR majors. OU Level 5. Prereq: Politics 101**

### **Politics 229: The US Federal Government**

The aim of this course is to introduce students to the basic workings of the American federal government, through a study of the Constitution, of political institutions, and of core values (rights, freedom, property, etc.). In addition, the course will provide a general overview of the evolving character of American political life from the colonial period to the present. Such phenomena and issues as lobbies, the role of the media, and the changing face of the American population (districting) will also be considered; so too will a rudimentary explanation of state and local government be offered. Finally, the course will introduce students to the overlapping methodologies inherent in the study of comparative government. **PS&IR elective. OU Level 5. Prereq: History 120 or Politics 101**

### **Politics 230: Comparative Politics**

The course studies and compares politics across states, by exploring several questions through research on similarities and differences among countries and within and between political systems. In the process, students will discover various ways in which institutional and non-institutional variables determine the answers to complicated questions like why nations thrive or fail, how culture affects governance quality, or what drives change within states and across borders. Country cases will be drawn from different regions of the world to ground students in the set of tools of comparative analysis, so that they may use these tools to further examine and link facts to the larger questions of international relations. The course will thus enhance student capacities to explain political phenomena, and eventually make predictions, using the comparative method. **Required for all PS&IR majors. OU Level 4.**

**Politics 233: International Law and Organisations**

The aim of this module is to introduce students to the complex, yet interesting system of international law and to the basic concepts and theories of international organizations and how they have changed the mechanisms of reasoning behind the making, implementation and enforcement of international law. A large portion of the module will focus on the fundamental principles of international law, the law of treaties, the relationship between international and domestic law, the imperative of human rights and the impact that international organizations have in the field of international relations, such as peacekeeping operations, human security and terrorism. **Required for all PS&IR majors. OU Level 5. Prereq: Politics 101**

**Politics 240 International Migration**

The aim of the module is to introduce students to the issues and concerns of international migration, particularly as these have been brought about by globalization. The module will systematically examine the processes of international migration, push and pull factors, economic factors, as well as how international migration is innately connected with conflict and war, climate change, economic inequalities, and other factors. Theories and conceptual frameworks will be utilized, as will several case studies from around the world. Debates about borders and sovereignty will be addressed, as well as the recent securitization of migration, as countries take actions to stop migratory flows and adopt policies to discourage migrants wanting to enter. **PS&IR elective. OU Level 5. Prereq: History 120 or Politics 101**

**Politics 250 Politics and New Technologies**

The module is aiming at providing students insights into the following: The rapid development of technology over the past two centuries: first, second, third industrial revolution; the upcoming/current fourth industrial revolution. How technological progress is affecting politics: the limits of human activity and machine work. “Technophobia” and conservative restrains vis-à-vis technological advancement. Politics and new technologies in warfare. How technology affects gender. Artificial intelligence and the limits of human mind. **PS&IR elective. OU Level 5. Prereq: History 120 or Politics 101**

**Politics 301: War and Human Security in the Modern World**

In many respects war seems to be a major preoccupation of humankind. This course sets out to examine various perspectives on the causes, nature, and implications of war and genocide, as well as familiarizing students with the major issues and concepts associated with violent conflict. In addition students will become engaged with the dynamics of efforts to establish peace and resolve conflicts through an examination of applied theoretical frameworks and case study analyses.

**Required for all PS&IR majors. OU Level 6. Prereq: Politics 101, History 120**

**Politics 304: Women, Power, and Politics**

This course provides an examination of the intersection of gender with politics, emphasizing the social construction of gender as well as the notion of citizenship and the part of women within a democratic polity. The course addresses the evolution of public policies affecting both men and women, legal systems and women, and the emerging role of women in state and non-state political institutions. The course will also explore the challenge that feminist theory has made to the traditional theories of politics and international relations. **PS&IR elective. OU Level 6. Prereq: Politics 101**

**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. **Required for all PS&IR majors OU Level 5. Prereq: Politics 101**

**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 233, International Law and Organizations, 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. **PS&IR elective. OU Level 6. Prereq: Politics 201**

#### **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. **PS&IR elective.**

**OU Level 6. Prereq: Politics 201**

#### **Politics 334: Global Security Challenges**

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 those 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. **PS&IR elective.**

**OU Level 6. Prereq: Politics 101**

#### **Politics 350-351: 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.**

#### **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 the enlargement process and external relations.

**Required for all PS&IR majors. OU Level 4. Prereq: Politics 101**

#### **European Studies 211: The Politics of the European Union**

The aim of this course is to introduce students to the major historical, political, and legal developments leading to the creation and evolution of the European Union. The course examines in detail EU treaties, institutions, and policy-making processes, and provides a critical examination of theories of European integration and enlargement. **NB Study abroad, non-degree and non-PS&IR students only.**

#### **Public Service 299: Internship Project**

This is an applied, “hands-on” course, aiming to help students understand managerial and policy practices of NGOs. Students will be posted in local organizations as interns, where they will work for a few hours per week. Apart from their job requirement in the NGO, students will undertake managerial analysis of projects as coordinated by the instructor (e.g., analyze the strategy of the NGO, perform policy and public value analysis, etc). The work in the NGOs will be supplemented by seminar-type classes where public and not-for-profit issues will be addressed. By the completion of the course students will not only have acquired some professional experience, but they will also be in a position to perform primary analysis of the environment in which they work. May be taken by PS&IR students as a free elective. **Prereq: junior or senior standing; permission of instructor.**

#### **Research 210: Research Methods and Analysis**

This a required course in which students are given the opportunity to develop an understanding of the research process and familiarize themselves with key methodologies and practices in Humanities and Social Sciences research. The module provides students with the knowledge and experience of applying various transferable research skills at conceptualizing, framing, exploring, analyzing and discussing an issue, in light of advancing their academic, research and writing performances

throughout their study years and to a graduate degree. Finally, it is designed to provide students with research skills which are in high demand in a variety of contemporary professional settings. **PS&IR requirement. OU Level 4.**

### **Practicum 300 Practicum**

The module aims to offer students experiential and service-learning experiences which bring together knowledge acquired in various modules in their field of academic studies and its applications in diverse research and practice-based environments, such as the professional setting, education, not-for-profit, and the arts sector. As such, this placement module prepares students for further independent work and gives them hands-on experience of various professional fields, equipping them for the job market. **PS&IR elective. OU Level 6.**

## **SOCIAL SCIENCES (SOCIAL SCIENCE, ANTHROPOLOGY, SOCIOLOGY, PSYCHOLOGY)**

### **Social Science 210: Introduction to Global Studies and Human Geographies**

This course sets out to explore a number of subjects relating to the study of geography and politics. Students will be exposed to topics such as world/regional geography, cartography, geopolitics, politics and the environment, colonial/postcolonial geographies, and development, while the multidimensional and trans-disciplinary nature of geographical and political studies will be emphasized throughout. The course will also investigate such topics as world systems theory, cultural change, and globalizations. **Required for all PS&IR majors.**

### **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. **PS&IR elective. OU Level 5. Prereq: Politics 101, Anthropology 101 or Sociology 101**

### **Social Science 219: Individual and Society**

This course introduces students to the theoretical and practical problems of social interaction in modern society. Contemporary social thinkers and studies will be used in order to explore and explicate the reciprocal relationship between society and the individual. Topics of contemporary interest, among them those of gender, social identity, deviance, and the mass media, are critically analyzed and interpreted. May be taken by PS&IR students as a free elective. **Prereq: Anthropology 101 or Sociology 101**

### **Social Science 234: Gender, Cultures and Societies**

This course will address gender issues from the standpoint of the social sciences. Its aim is to direct students towards a deeper understanding of gender as a social construction and not as a mere biological fact. By providing cross-cultural data on gender roles and by analyzing strongly held stereotypes about them in contemporary societies, the course will focus on the cultural patterning of behavior and perception that may or may not support gender stratification and hierarchy. Emphasis will be given to the interconnected levels of environment, economy, social complexity, and symbolic systems that affect the differential distribution of power, prestige, and authority between men and women in different societies. **May be taken by PS&IR students as a free elective. Prereq: Anthropology 101 or Sociology 101**

### **Social Science 323: Race and Racisms**

This course sets out to examine various sociological perspectives on race and the processes of racialization. Students are given the opportunity to develop their understanding of the idea of race and key aspects and practices of racism. Students will gain insights into the evolution and construction of race in history and familiarize students with different types and forms of racism. In order to fulfill these objectives in a satisfactory manner, this course embraces and interdisciplinary approach at both the theoretical and applied levels. **PS&IR elective. OU Level 6. Prereq: History 120 or Sociology 101**

**Social Science 349: Contemporary Globalization**

This course aims to give the students a complex understanding of the processes of globalization. We will first look at how different theoretical perspectives make sense of globalization, i.e., what it is, whether it is a novel set of phenomena or not, and what its impact is on our world. With the background of this theoretical diversity, we will then go into studying in depth the institutions and impact of globalization. We will explore how globalization shapes and alters the economic, political and social structures of societies, and what specific roles the global institutions play in this transformation. We will also look at the gender dimension of this claim. Finally we will discuss those political movements which criticize and provide alternatives to globalization. **Required for all PS&IR majors. OU Level 6. Prereq: History 120, Politics 201**

**Social Science 399: Service Learning Practicum**

The course comprises a combination of theoretical sessions (in-class component) and real-life case study projects. Having a service-learning character, this course enables students to experience in practice and better understand community engagement through placements and implementation of projects in local community NGOs, agencies and organizations. Some identified organizations for students' placements are organizations that provide services related to health and care, education, environment conservation and citizenship & social activism. The key principle underlying these activities is the co-construction of knowledge through student collaboration. Such a participatory approach facilitates the process of pairing up students across ages, backgrounds and interests and enables a shared, co-experienced understanding of place and community participation among the young people involved. **May be taken by PS&IR students as a free elective.**

**Anthropology 101: Introduction to Anthropology**

This course provides an overview of major themes and concepts of Anthropology considered both in relation to the biological disciplines (Paleontology, Ethnology, Sociobiology) and as the comparative study of human cultures (Social Anthropology/Ethnology). The course establishes the continuity of human culture from an evolutionary perspective and acquaints students with contemporary interdisciplinary debates on major issues. **May be taken as Social Sciences/Group C GER**

**Anthropology 210: Introduction to Contemporary Greek Culture and Society**

This course is designed as a navigation guide to contemporary Greek society and culture. Students are introduced to key features of public and private everyday life (history, politics, economy, education, religion, family, gender relations, sexuality, food, tourism, entertainment, music and dance, etc.). Texts drawn from a variety of sources will be used along with multimedia materials. Mini fieldwork projects will further enhance students' understanding and participation.

**Anthropology 211: Theory and Techniques of Archaeology**

This course offers a survey of the archaeological discipline with a focus on two themes, the material remains of past cultures and the techniques employed when studying archaeological remains. The course aims to broaden and deepen the students' understanding of past cultures and societies, thus providing enhanced insight into modern ones. Emphasis is placed on the reconstruction of social structure, environment, technology, communication, and cognitive systems of past societies as well as on the analysis of archaeological explanation. **May be taken as a free elective.**

**Anthropology 215: Methods and Practices of Archaeological excavation**

The present course surveys methodological approaches to the investigation and interpretation of past societies with an emphasis on excavation practices. It examines the major frameworks including older and current trends as well as the regional archaeological context in Northern Greece. The in-classroom teaching is complemented by a practicum that also provides students with a hands-on, excavation and laboratory experience in the study of ancient artefacts and points at the different ways in which such experience can answer major archaeological questions. In short, it aids the reconstruction and understanding of past social, economic, political and ideological realities. Working both in class and at the actual field, students will examine important archaeological evidence from the site of Toumba in the Northern Greek city of Thessaloniki dated from the Bronze age to Hellenistic times. Five credits. Three in class & two in excavation practicum. **May be taken as a free elective.**

**Anthropology 221: Ethnographic Accounts of Greek Culture**

This course examines different aspects of Greek culture and society through the anthropological lens. Ethnographic articles on everyday life expressions in different communities provide the material for the exploration of the inner differences, the complexities, the continuities and the changes that constitute part of contemporary Greek culture and society. Some of the topics discussed in this course include the social and economic life of people in different regions of Greece and in different periods of time, gender relations, presentations of the Greek cultural self, processes of identity formation, the role of the church as well as of the contemporary nation-state. **Prereq: Anthropology 101 or Sociology 101**

**Anthropology 222: Greek Folklore**

This course provides an overview of the creation, evolution and theory of folklore studies in Greece (19th and 20th centuries). It will introduce students to the major folklore categories (oral literature, customs, artifacts of material culture) and their collections (archives and museums). Emphasis will be placed on the study of folksongs and folktales. The course will also address the phenomenon of folklorismus, the revival of traditional customs, and its uses in modern Greek society. **Prereq: Anthropology 101 or Sociology 101**

**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**

**Sociology 201: Contemporary Social Issues**

This course initiates students into the conceptual framework and problems associated with “mass culture,” through an analysis of that phenomenon. The course focuses on the analysis and interpretation of such contemporary social issues as feminism, race and ethnic relations (including internal colonialism), terrorism, and the more specialized cases of institutionalized and clandestine violence. The course maintains a comparative perspective and, thus, the above issues will be considered both in their first and third world contexts. **May be taken as a free elective.**

**Psychology 101: Introduction to Psychology**

This course aims at providing a comprehensive introduction to the essential principles of the academic discipline of psychology by addressing such important topics as the function of the human brain, perception, language, development, learning, motivation, emotion, intelligence, personality, psychological disorders, and social behavior. The student is introduced to major theories of human behavior and is encouraged to assess critically the contribution and applicability of psychological research to daily life through class discussions, presentations and written assignments. **Required for Psychology majors. May be taken as Social Sciences/Group C GER for other majors**

**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. **Required OU level 4. Prereq: Psychology 101**

**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. **Required OU level 4. Prereq: Psychology 120**

**Psychology 130 – Cognitive Psychology**

This course will help students to acquire knowledge regarding core issues, theories and experimental findings in cognitive psychology. The course intends to cover the main topics of the field of cognitive psychology as the main mental processes play a key role in human Behavior, thinking and decision making process. Nowadays, as the information people encounter and the situations they immerse themselves in are diverse, the understanding of the working process of language, perception, learning, memory, etc is necessary. Focus will also be given to the progression of the cognitive field and the investigation of real-world issues through controlled laboratory scientific experimentation. **Required OU level 4. Prereq: Psychology 101**

**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 psychophysiologicalists 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. **Required OU level 4. Prereq: Psychology 101 and permission of advisor**

**Psychology 170-Personal Development & Employability (OU)**

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. **Major Elective OU level 4**

**Psychology 200-Adulthood and Aging**

The goal of this course is to provide a critical analysis of the methods and theories that have been applied to the study of human ageing from a psychological perspective through the study of major theories of aging, changes in physical and mental health, personal transitions, and social relationships, as well as death and dying. **Major Elective OU level 5. Prereq: Psychology 101, Psychology 120, Psychology 121**

**Psychology 202 - Personality Theories**

This course will help students to deepen their knowledge regarding the formation of human personality and its impact on several areas of life. Also, the course intends to cover the main theoretical approaches, their strengths and limitations as well as their application to the explanation of psychopathology and problematic behavior. As nowadays, in the field of psychology, a lot of researchers and professionals suggest an eclectic approach, students need to be acquainted with the various theoretical schools and be able to apply basic theoretical information to real-life examples in practice. Focus will be also given to relevant issues, such as the genes and environment debate, gender differences and cultural perspectives so that students develop a holistic approach to the understanding of human personality. **Required OU level 5.**

**Psychology 204 - Social Psychology**

The aim of this course is to develop student's knowledge and understanding of key areas in Social Psychology such as: social thinking (which includes the topics of the self-concept; self-serving bias; stereotypes and prejudice), social influence (which includes the topics of persuasion; health and well-being in today's societies) and social relations (looking at the topics of

aggression, discrimination, liking and helping). Biological, cognitive, emotional and socio-cultural aspects will be discussed while presenting the above key areas. The students will also learn about the related field of Community Psychology and how its main principles and research findings apply to contemporary communities. Finally, research related issues such as ethics and methodologies in Social Psychological research will be covered. By presenting the main concepts, theories, research methods and key studies in Social Psychology, the course aims to help students evaluate the usefulness of the above in today's societies as well as recognise the limits of generalising social psychological research to all gender/ethnic/cultural/age groups. **Required OU level 4.**

#### **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. **Required OU level 5. Prereq: Psychology 101, Psychology 211**

#### **Psychology 206-Research methods and Qualitative Analysis**

In this course students are given the opportunity to develop their critical understanding of the research process in Psychology and build a solid ability to evaluate methodological issues in specific Psychology research studies and carry out a research study themselves. Students will advance their knowledge of qualitative data analysis (mainly thematic analysis, narrative analysis and discourse analysis) and of critically evaluating the quality criteria of research studies (in terms of validity/transferability, reliability/dependability, objectivity/reflexivity, truth/credibility, generalisability/local-groundedness). Finally, the students acquire the knowledge and skills to design and conduct a piece of small-scale original research. This course provides valuable preparation for final year thesis. It is associated with Psychology 101 and other modules that include introduction to research methods such as Psychology 211 and Psychology 205. **Required OU level 5. Prereq: Psychology 101, Psychology 205**

#### **Psychology 211: Historical, Philosophical & Research Foundations of Psychology**

This course aims to introduce students to major conceptual and historical paradigms and models in psychology, the history of psychology as a science, the social and cultural construction of psychology, the most interesting developments in the history and concepts of science and to the concept of the self or mind. They will learn about the philosophical origins of psychology, introspection, behaviorism, psychodynamic theory, evolutionary psychology, developmental psychology, cognitive psychology and neuroscience and they will be re-introduced to major figures in the history of psychology, including Wundt, Pavlov, Skinner, Piaget and Freud etc. The ways in which psychologists and psychiatrists have investigated human nature will be examined, and major controversies in the field along with basic philosophical assumptions made in the sciences of human nature will be explored. In addition, students will be introduced to the fundamental principles of research methodology in Psychology such as different research designs, sampling techniques as well as basics of descriptive statistics. **Required OU level 4.**

#### **Psychology 215: Positive Psychology**

This course will provide students with the opportunity to learn about Positive Psychology and study how humans prosper in 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. **Major Elective OU level 5. Prereq: Psychology 101**

**Psychology 218: Clinical Psychology I: Psychopathology**

This course will help students gain a thorough and critical understanding of clinical issues and specifically, mental health and illness, definition of psychopathology, diagnosis and various factors that should be taken into account in the process of identifying several psychological disorders. As mental health professionals need to be aware of all the important issues and ethics in the clinical field, students need to be acquainted with the main psychological disorders and critically apply theoretical information to case studies and real life examples from professional practice. Therefore, focus will be given to assessment, causation, risk factors and effects of the main psychological disorders but also students will be introduced to the basic principles of treatment and prevention strategies. Moreover, they will be acquainted with issues of stigma and social exclusion so that they are aware of diversity issues and their implication on clinical practice. Required OU level 5. Prereq: Psychology 101, Psychology 120, Psychology 121

**Psychology 221: Neuropsychology**

This course aims to enable the students have a good grasp of the most recent advances, and a critical assessment of the literature in the field of neuropsychology. The focus is on particular neuropsychological conditions and cognitive dysfunctions that are the result of known structural brain damages. With respect to brain damage, the focus is on assessment and treatment methods. All these factors are studied in their single and combined effect on normal neurocognitive outcome as well as on mild to severe cognitive dysfunction in adult. For that purpose, a broad range of research methods is overviewed and explained, including longitudinal, interventional, experimental, patient-related, psychophysiological, and neuroimaging techniques. Discussed syndromes and disturbances: neglect syndrome, apraxia, aphasia, dementia, epilepsy, disturbance of visual processes, memory disorders and disorders of attention and executive functions. **Required OU level 5. Prereq: Psychology 101, Psychology 130, Psychology 150**

**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. **Major elective OU level 5. Required OU level 5. Prereq: Psychology 101**

**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. **Required OU level 5. Prereq: Psychology 101, Psychology 150**

**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. **Major elective OU level 5. Prereq: Psychology 101 or by permission by the instructor.**

**Practicum 300**

This course enables students to immerse themselves in real-life contexts, collaborate with community partners and mentors, and better understand the requirements of the community engagement and professional work, where relevant. There is a focus on reflexivity, problem-solving, communication skills development, critical thinking and writing. The course will offer students

experiential and service-learning experiences which bring together knowledge acquired in various modules in their field of academic studies and its applications in diverse research and practice-based environments. As such, this placement module prepares students for further independent work and gives them hands-on experience of various professional fields, better equipping them for the job market.

### **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. **Major elective OU level 6. Prereq: Psychology 101, Psychology 120, Psychology 121**

### **Psychology 305 : Counselling and Psychotherapy**

This course will help students to further deepen their knowledge regarding the prevalent counselling theories and approaches and psychotherapy research and critically evaluate them and apply related theory to case studies from professional practice. They will also get acquainted with the interview process, the therapeutic process and relationship, the counselling skills and the ethical issues on both theoretical and practical basis. Focus will be given to diversity issues in counselling, such as ethnicity, social class, age, gender, sexual orientation, etc. Moreover, the emphasis of this course on experiential learning and personal awareness and development will facilitate students to better comprehend the role of the psychologist in the counselling field and apply the knowledge and skills to their practicum. **Required OU level 6. Prereq: Psychology 101, Psychology 202**

### **Psychology 310: Organizational Psychology**

Through this course the students will understand in depth the influence and interaction between organisations and the groups and the individuals who lead and work within them and will learn to analyze how these processes shape outcomes related to the use of human capital and to organizational effectiveness. The students will also learn to critically reflect on the roles, behaviors, interactions and outcomes they have had or will have themselves while participating in organizations or institutions. This course will start by presenting the history of organizational psychology and the topics of study and practice for organizational psychologists and will then discuss different structures and cultures of organizations. It will continue by covering various processes unfolding between organizations, groups and individuals (such as leadership, motivation for work, resistance to change, persuasion, team-working, problem solving, conflict/collaboration) and also examine how these processes shape various outcomes related to the performance and wellbeing of groups and individuals and the operation and growth of institutions. Research designs and methodologies in organizational psychology will also be covered. **Major elective OU level 6. Prereq: Psychology 101**

### **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. **Major elective OU level 6. Prereq: Psychology 101, Psychology 202, Psychology 218**

**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. **Major elective OU level 6. Prereq: Psychology 101, Psychology 204**

**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. **Major elective OU level 6. Prereq: Psychology 101**

**Psychology 350: SENIOR THESIS I**

This is a required course for psychology majors. It constitutes the first term of a year-long research project, at the end of which the students are required to submit an 8,000-word thesis. In the Fall Term, they submit a 3000-word draft of the thesis, with main emphasis being the literature review. **Required OU level 6.**

**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. **Required OU level 6.**

**Psychology 360: Advanced Applied Statistics for Psychologists**

In this course, 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. The course helps students understand the strengths and limitations of different research paradigms, various research methodologies and methods in Psychology, as well as apply advanced statistical techniques and learn: a) about the main descriptive statistics techniques, b) inferential statistics techniques, c) non – parametric tests, d) correlational analysis and e) high order (factorial) AN.O.VA statistical methods. Students are also given the opportunity to analyze the aforementioned methods using SPSS, using Psychology examples and data. Students will also learn why Psychology is an empirical science and how empirical research can be designed step-by-step in Psychology. Additionally, students will acquire statistical literacy (at the level of advanced statistics) through practical classes that will allow the learnt concepts and analytic techniques to be practiced, both by hand and through using a computer and the relevant software (SPSS).

**Psychology 370: Psychology of Trauma**

This course will explore psychological trauma from a variety of viewpoints and will draw on research and applications from various trauma-related topics such as childhood trauma, adult sexual assault, war, domestic violence, etc. Note: This course is not purely academic, so it is very possible that you, someone you know, or any of your classmates have survived very significant crises or traumas in their lives. Some of the lectures, media presentations, and guest speakers may have a strong emotional impact on you, so it is recommended that all students seek out some form of support during this course; a list of support services will be provided.

**Psychology 400: Clinical Psychology II: Psychological Assessment**

This course provides students with an opportunity to develop further their knowledge and skills in the areas of observation, measurement and psychometric assessment, including the use of formal psychological tests. Also, the aim is to explore the theory and application of psychological tests as measures of personality, intellectual functioning, attitudes etc. and learn how to use certain types of tests, their advantages and disadvantages, and test reliability and validity. Additionally, students will gain insight

into the appropriate use of tests, tests construction, administration of tests and interpretation of test results. **Required OU level 6. Prereq: Psychology 101, Psychology 205, Psychology 206, Psychology 218**

## **ENGLISH & COMMUNICATION**

### **English Lab Language skills**

Lab 1 is designed to help students increase their English language skills in an academic context so as to be better equipped to handle college assignments and to build confidence in using English in both written and oral communication. The lab offers a comprehensive review of all English grammar and sentence structure, and focuses on reading, writing and speaking in a thought-provoking environment through the study of topics of universal appeal. **(non-credit course).**

### **English 101: Composition I**

This course reviews the basic principles of paragraph writing and introduces the major rhetorical modes of narration, description and exposition through discussion of theory, examination of model essays, and writing practice. In addition, students are introduced to information literacy by spending seven two-hour sessions in the library, developing effective search strategies, understanding the differences between types of resources, and using critical skills with which to evaluate resources. **GER requirement.**

### **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. **GER requirement. Prereq: English 101**

### **English 120: Introduction to Literature**

The purpose of this course is to introduce students to the literary genres of poetry, drama and short fiction prose, and to familiarize them with a variety of literary techniques specific for the analysis of each genre. Students read a selection of classic and contemporary works within these genres and engage in analysis of narrative, study key poetic techniques that make meanings happen and discuss critical approaches as part of an attempt to become better readers and a more critical audience, thus providing a broad literary basis for ensuing theoretical and critical discussions. Students also gain an enhanced aesthetic appreciation of literature as art and come to value its role in education and everyday life. **May be taken as Humanities/ Group A GER. Required for English majors (OU, Level 4)**

### **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. **GER requirement. Prereq: English 102**

### **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 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. **GER requirement. Prereq: English 102**

**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. **(OU Level 4)**

**English 220: Introduction to Twentieth Century Poetry and Drama**

This course introduces students to twentieth century poetry and drama through the consideration of selected texts from both genres that represent major thematic and stylistic concerns of the period. Students will be able to reflect upon the diverse directions taken by poets and dramatists throughout the century and some of the factors which have influenced literary developments while critically analyzing the components of both genres and their effects. The first part of the course will concentrate upon poetry and examine poetic techniques, structure, language and style and their relationship to meaning; where appropriate tracing similarities and differences in the works studied. In the second part of the course, selected plays will be studied, focusing upon dramatic conventions, structure, language and style, with careful attention being given to the performative aspect of the texts and influences that have helped shape twentieth century theatre practice. **(OU Level 4)**

**English 221: Short Fiction**

This course focuses on in-depth critical reading of and writing about short fiction (short stories and/or novellas) within the context of the traditions and innovations which have concerned these genres, and with respect to the standard elements of short fiction. Through the in-depth study of seminal short novel practitioners such as Herman Melville, Henry James, Joseph Conrad, Edith Wharton, James Joyce, Franz Kafka, Philip Roth, Gabriel Garcia Marquez and Alice Munro, students learn to recognize both the stylistic features distinct to each writer as well as the common thematic and technical threads that group them together. Whenever possible, readings will be supplemented with their film adaptations. **(OU Level 4)**

**English 224: Post World War II British and American Drama**

The course aims to introduce students to the systematic study of different kinds of drama by British and American playwrights from the period after the Second World War up until the start of the 21st century. It further aims to enhance their capacity to understand and think analytically about dramaturgy; to recognise the importance of the conventions of drama in the construction of meaning; to further develop their literacy skills so that they will be more critical and responsive readers and more exact and confident writers; to improve students' understanding of drama as both a literary and a performance medium and the connection between the two; and to introduce students to the synergy between dramatic texts and developments in theatrical practice, and how each informs and shapes the other. **(OU Level 4)**

**English 230: British Literature and Culture**

This is a standard survey course that guides students to the study of British literature in a more historical and culturally contextual fashion. This course aims to help students explore the interface of literature and society, and to provide them with appropriate tools for more advanced contextualized literary study. Students will learn to contextualize individual texts, recognize literary trends and cultural modes, evaluate literary and social movements, and be able to follow and discuss the evolution of British literature from the age of Chaucer within each cultural frame. While the focus of the course is primarily on so-called canonical writers and texts, class discussions and overarching critical perspectives look beyond such classifications.

**Prereq: English 120 (OU Level 5)**

**English 235 Introduction to Literary Theories and Criticism**

This is an introductory survey of major contributions to literary theory and criticism, focusing especially on text and textuality, and especially the social, cultural and political aspects of textual interpretation. It will provide students with a basic theoretical

background in literary and critical theory, while attempting to develop a coherent overall context that helps unravel the variety of approaches, theorists and technical language in a lucid and comprehensive way. More specifically, students will be able to define both literary theory and literary criticism and explain the emergence of these two fields as a discipline of study; display a comparative understanding of the theories; be able to apply theories to literary texts; learn how to analyze a literary text according to a given approach; become active participants and be able to make some personal sense of the theories and criticisms. **(OU Level 4)**

#### **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. **Required for PS&IR, Psychology, and English majors (OU Level 4)**

#### **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. **Prereq: English 120 (OU Level 6)**

#### **English 268: Women and Literature**

The course examines the evolution of women's literature from the 19th to the 20th century through a study of selected texts by Anglophone women writers. Coventry Patmore's "The Angel in the House" (the only text studied written by a man) serves as the background against which students will study a variety of texts written by women writers that respond to and deconstruct this female portrait, gradually "killing the Angel" and working to create new fictional portraits and a new discourse for women and women's literature while moving beyond the literary canon. **Prereq: English 120 (OU Level 5)**

#### **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. **(OU Level 4)**

#### **English 274: Applied Linguistics in Teaching Theory and Practice**

**This course aims to introduce and analyze the fundamental principles and techniques of Teaching English as a Foreign Language.** It is designed to offer students a solid grounding in current approaches to teaching English as a second/foreign language, with an emphasis on practical applications to classroom settings. Students are expected to develop lesson plans, manage a classroom, design teaching materials for particular age groups and teach grammar and vocabulary as well as the productive and receptive skills as they apply their learning in a real teaching context. **Prereq: English 273 (OU Level 5)**

#### **English 275: Sociolinguistics: Introduction to Language and Society**

The course explores the general framework for understanding how human communities use language to say or fail to say what is meant and investigate the particular linguistic styles conventionally used by social subgroups. During this exploration,

students are challenged to do the following: 1) Situate sociolinguistics in its discipline; 2) Acquire fluency in using terms & concepts to examine social uses of language; 3) Become familiar with relevant research; 4) Expand research experience and hone research skills; 5) Develop awareness of linguistic styles, our own and those of others around us; 6) Apply this learning to analyzing social situations, complications & misunderstandings; 7) Enhance preparation for entering the world of work, regardless of the profession. **(OU Level 4)**

**English 284: Literature through Performance**

This elective course encourages recognition and appreciation of the symbiotic relationship between artistic disciplines. Through a focus upon elements of theatre and performance and their practical application with regard to selected literary works, students will gain significant insights into how the medium of performance opens out new possibilities for the comprehension of text. Students will strengthen their critical understanding of literary conventions; become acquainted with diverse performance conventions, skills and traditions, and their practical application; gain firsthand experience of the ways in which the distinctive features of a literary text can be rendered into a performance and the factors that need consideration; develop their communication skills in a variety of contexts; and evolve into more responsive, sensitive and reflective readers and audiences. **(OU Level 5)**

**English 292: Literature, Culture and Art in EFL teaching**

This elective course will focus on how literature, culture and the arts can be used as pedagogical tools employed in the educational process, and more specifically in the teaching of English as a foreign language (EFL). Students will gain insight into modern theories of language teaching and experiment with learner-centred educational methods, which will inspire them to make their own teaching more creative and multicultural. The course will be interactive since students will be engaged in various creative activities, using literary texts, poems, films, music and the arts to eventually create their own, authentic and creative lesson plans and present them through microteaching to their class. **(OU Level 5)**

**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. **(OU Level 4)**

**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 characterise and shape 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. **(OU Level 6)**

**English 310: Design and Evaluation of teaching and assessment materials**

In this course students will increase their critical awareness of approaches and methodologies in a range of EFL contexts and gain further insight in critically evaluating teaching and assessment materials. They will be given the ability to critically reflect on their own beliefs about teaching and learning, and develop their expertise in the creation of inclusive teaching materials at different levels and for different age groups. During the course, students will be able to synthesize all of the above, and create their own teaching and assessment materials, implemented through microteaching to their classmates. **(OU Level 6)**

**English 320: The Other in Literature and Media**

The Other has been a very common figure in literature as well as media, especially television and film. This course will focus, in an interdisciplinary fashion, on the various portrayals of “otherness” as they appear in diverse socio-historical contexts and from diverse points of view. Students will be exposed to a wide variety of written and visual texts and critically explore how

Otherness has been imagined and portrayed in terms of gender, social class, race, sexual orientation, ethnicity and religion. Students will also consider the figure of the “Other” in Greece, as well as the figure of the Greek as the “Other” within the context of 20th century United States. They will be encouraged to interrogate culturally dominant assumptions regarding “otherness” as well as read canonical texts against the grain, with a special focus on Western constructions of the “Other”. (OU Level 6)

**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 2nd language teaching methodology. **Prereq: English 273 (OU Level 5)**

**English 340: Comparative Literature**

The course aims to engage students in a comparative study of literary representations of sexuality from antiquity to present times. Terms such as ‘sex’ and ‘sexuality’ are often used interchangeably, without considering their many different connotative meanings at different historical periods, or in different cultural contexts. The course is divided into three parts: a) philosophy and sexuality, b) class, gender, sin, and sexuality, and c) Freud, psychoanalysis and sexuality, which will bring us back to philosophy. Works in translation will help us reveal the nuanced role of language itself in terms of constructing sexuality. **Prereq: English 120 (OU Level 6)**

**English 350: Advanced Writing: Writing for Social Change**

Writing for Social Change is a longstanding rhetorical tradition of using public writing as a tool for social critique and as a means of personal, community, institutional, and/or political dialogue and transformation. In order to develop a sense for social critique, the course addresses a variety of social issues such as class, gender, sexuality or race, that are sites of struggle for social change. Students will explore a variety of texts from the media, literature, film or popular cultures in order to understand how content, style, structure and format vary across a range of reading and writing situations. They will explore the relationships among the text, writer, audience, and context, and discuss how these relationships shaped the writer’s choices. Then they will be asked to apply this theoretical knowledge by writing in different genres and for different audiences, adapting the voice, tone, format and structure of their writing to meet the needs of the audience. (OU Level 5)

**English 370: Literature and Film**

This course will explore, in an interdisciplinary manner, some of the most important post-war literary and cinematic representations of conspiracy and paranoia on two main topics: the Cold War and the assassination of president, John F. Kennedy. Both events have been much documented and represented by seminal writers and filmmakers through a variety of aesthetic styles. Some of the questions that will inform the content of the course and guide our discussions include the following: what are the basic elements of conspiratorial narratives? Why do conspiracy and paranoia go hand in hand? How is history revisited in the arts? In what ways could cinema be seen as a more effective medium/vehicle for conspiratorial narratives? Is there a social function or utility in these texts? What are the strengths and weaknesses of this genre? And, most importantly, why are they so extremely popular? (OU Level 6)

**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. **Prereq: English 120 (OU Level 6)**

**English 390: Senior Thesis I**

This is the first part of a course in which the students are required to write an 8,000-word thesis. It forms a fundamental component of the BA Hons English curriculum, serving both its pathways, which offers students the opportunity to cultivate the abilities and skills necessary for the realization of a medium-scale research project, from the formulation of the initial research question to its final submission. Combining what is often encountered as either final year Dissertation or Advanced Research & Writing Skills, the course offers an integrative, hands-on and project-focused approach deemed particularly useful both to a wide variety of professional settings and to the advancement to graduate studies. **(OU Level 6)**

**English 395: Senior Thesis II**

This is the second part of a course in which the students are required to write a 8,000-word thesis, or a 6,000 word thesis if accompanied by a strong multimedia component. It forms a fundamental component of the BA Hons in English curriculum, serving both its pathways, which offers students the opportunity to cultivate the abilities and skills necessary for the realization of a medium-scale research project, from the formulation of the initial question to its final submission. The course offers an integrative, project-focused approach deemed particularly useful both to a wide variety of professional settings and to the advancement to graduate studies. **(OU Level 6)**

**Eng/Hum: 246 American Literature and Culture**

This course aims to provide students with insights into contemporary American literature, culture and society through an examination of selected literary texts and non-fictional sources which reflect the socio-cultural contexts of particular ‘moments’ in America’s historical trajectory from the mid-nineteenth century to the present. Students will be exposed to a variety of texts from different fields including: literature, the visual arts, political/historical essays/commentaries, and music. **(OU Level 5)**

**Practicum 300**

This elective course enables students to immerse themselves in real-life contexts, collaborate with community partners and mentors, and better understand the requirements of the community engagement and professional work, where relevant. It aims to offer students experiential and service-learning opportunities which bring together knowledge acquired in various courses in their field of academic studies and its applications in diverse research and practice-based environments, such as the professional setting, education, not-for-profit, and the arts sector. As such, this placement course prepares students for further independent work and gives them hands-on experience of various professional fields, better equipping them for the job market, while focusing on reflexivity, problem-solving, communication skills development, critical thinking and writing. **(OU Level 6)**

**Communication 127: Communication, Culture & Society**

Covering a range of different forms and contexts of communication (interpersonal, group, public, mediated, verbal and non-verbal communication) and using cases and scenarios drawn from everyday life, the course explores the ways communication and culture interrelate and interact, with particular focus on the workings and failures, potentialities and constraints of human communication. **(OU Level 4)**

**Communication 215: Foundations of Contemporary Media**

The course aims to acquaint students with the foundations of mass communication and the technological and social dynamics that have shaped their evolution. It will help students gain a better understanding of the evolving media landscape, the role of media industries, the effects of technological breakthroughs, and the ethical, political, and legal debates related to the media. It focuses on the fundamental socio-historical development in the media, both at the level of their role as industrial and cultural institutions, and in the light of the ethical and legal terms of their operation. Special attention is given to the most recent of technological breakthroughs in media development, i.e., the digital revolution, and to its transformative consequences over the whole of the media/cultural industry landscape. **(OU Level 4)**

**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. (OU Level 5)

**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?” (OU Level 4)

**Communication 227: Media Theory**

The course covers the major theoretical perspectives that have shaped the field of media studies. Through the examination of their distinctive insights, concepts and problematics, the course emphasis is on the comprehension and evaluation of the contribution these perspectives had to the understanding of media and media-saturated modern society. The theories are presented and discussed in their historical and ideological context, aiming at developing a critical understanding of their viewpoint and import. (OU Level 6)

**Communication 233: Introduction to Journalism**

The course provides students with an overview of the fundamental concepts of journalism. It will bring them closer to the profession of journalism by engaging them with work across all media platforms – print, broadcast and online – and helping them to acquire basic journalistic skills. Students will explore the profession of journalism both at a theoretical but also at a highly practical level and will discover new ways to tell a story. Techniques, methods and models guiding the contemporary practice of journalism will be given particular emphasis. (OU Level 5)

**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 Tik’Tok 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. (OU Level 4)

**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. (OU Level 5)

**Communication 317: Communicating Through New Media**

This course offers a broad but in-depth introduction to theories of the new media as well as the impact and influence of the new media on various aspects of socio-cultural life, including journalism, art, identities, politics, social issues, and so

on. Overall, it adopts an applied approach by examining the various socio-cultural aspects of the new media in concrete settings and thus aims to provide students with an understanding of the crucial changes that most socio-cultural sectors have undergone due to the evolution of new media. (OU Level 6)

**Communication 327: Research Methods and Practice**

In this course students are given the opportunity to develop an understanding of the major approaches in Humanities and Social Sciences regarding the design of research as well as data collection and analysis. It is a crossover that links to all courses in the curriculum that require either critical understanding of or engaging in research and of paramount importance to the thesis modules. The course is designed to provide students with research skills which are in high demand in a variety of contemporary professional settings, and necessary for their academic advancement to a graduate degree. It will discuss various research methods and in each of the methods studied, the aim is to focus on its practical applications and uses, examine in-depth notable cases of published research, and appraise their social utility. (OU Level 5)

**Comm 345: Media Ethics in the digital age**

The course introduces students to the key issues of media ethics not only as an essential tool to safeguard fair and credible News reporting, but also as an important element of the journalists’ professional identity in the digital age. Looking at ethics as the thread to connect the different stages and actors of this online transition, students will familiarize themselves with the ways and the tools the Media use to respond to their societal role, to find alternative funding models to use, and to perform better in engaging a diverse public while trying to face the phenomenon of disinformation. Through analyzing the principles of ethical commitment and the way they are challenged within the digital landscape, students will be introduced to the debate on how to reverse the public’s distrust in News and Media. (OU Level 6)

**HUMANITIES (MODERN GREEK, HUMANITIES, PHILOSOPHY, ART AND ART HISTORY, MUSIC)**

**GBST 200: Geographies of Globalization, Culture, and Identity**

This course will explore key phenomena transpiring in the contemporary world relating to culture, politics, society, and identity formation. In order to facilitate understanding of existing socio-cultural realities, students will investigate the diverse processes associated with globalization. A fuller appreciation of these dynamic processes will require engagement with particular geographical competencies as well as an awareness of historical contexts and developments. Finally, this course encourages students to think critically, analytically, and across disciplinary boundaries that are centered on the social sciences. **May be taken as free elective.**

**Greek 101: Beginning Modern Greek I**

The aim of this course is to develop students’ familiarity with oral and written Greek through dialogues dealing with everyday situations and written material drawn from the popular media. Emphasis is on oral communication. Grammar is learned through dialogues illustrating everyday communication, while students gain practice by role-playing and acting out numerous everyday situations. The vocabulary used meets basic social needs for an environment where Greek is spoken. **[Meets four hours weekly]**

**Greek 104: Beginning Modern Greek II**

This course is designed to develop further students’ fluency in Greek. Emphasis is given to oral practice, which includes active use of the spoken language, without neglecting the written language. Grammar is presented through dialogues from everyday situations and written material from newspapers and magazines. Students engage in discussions on common social topics. **[Meets four hours weekly] Prereq: Greek 101 or permission of instructor**

**Greek 201: Intermediate Modern Greek I**

In this course emphasis will be given to oral practice, provided through both classroom discussion and presentations. More advanced grammar is taught using textbook dialogues and written materials from a variety of sources, including newspapers, magazines, books, and contemporary song lyrics. **[Meets four hours weekly] Prereq: Greek 104 or permission of instructor**

**Greek 202: Intermediate Modern Greek II**

Upon completion of this course students should be able to engage in extended conversations with native speakers on topics such as family, work, recreational activities, and the environment. They should be able to follow a TV documentary or watch the news, and read newspapers, magazine articles and selected literature. Writing skills will allow for extensive prose, such as narrative and argumentative essays. Students will also be required to work on group projects. Advanced grammar (passive voice, pronouns, imperatives, use of subjunctive) will be taught through textbook material (dialogues) and written material from newspapers, magazines, books and lyrics. **Prereq: Greek 201 or equivalent (Note: Advanced Greek Language courses are available on demand)**

**Humanities 120: Understanding Greek life and culture**

The course provides an understanding of contemporary Greek life and what it means to be Greek. It does so by examining the practices and creations of Greek culture, as well as by identifying and understanding the main figures of Greek life and the political scene through time. In addition, it develops students' intercultural and communicative competency so that they can interact both locally in Greece and in the global community. Indicative content areas: Modern Greek language (acquisition of effective Modern Greek communication skills for daily use), Greek culture (language, art, cinema, music and customs), the Modern Greek state structure (background, historical development, public administration, and political parties) figures and Institutions, Greece as pluralistic society (the Orthodox church, family, community and values, migration, minorities), national identity (nation-building, ethnicity, and Greeks within Europe, the Balkans and the world)

**Humanities 203: Landmarks in the Western Tradition**

This advanced survey course examines canonical of the Western Tradition starting with the Bible and extending through the mid-twentieth century. Various themes are traced, such as the relationship between nature and ideal, the notion of truth and virtue, and high-low art and the hierarchy of the genres. Students read from prose and non-prose texts alike, and consider these also in the context of non-verbal expressions of the humanities (music, arts, architecture). **Prereq: English 120**

**Humanities 204: Exploring Ancient Greek Language and Culture**

This course introduces students to the history of the ancient Greek language, from its origin to the present, and to some aspects of ancient Greek culture. Students are developing awareness of and some knowledge in identifying the application of ancient Greek to modern languages as well as an understanding of the culture of the ancient Greek world through texts of Classical Greek authors in translation and other material. The course deals with ancient Greek alphabet and pronunciation, language contact and change, the connection between ancient Greek language and other languages (e.g. familiar English words, scientific and technical vocabulary derived from Classical Greek) and the relationship of language and culture. Knowledge of Greek is not required.

**Humanities 205: Ancient Greek Genres**

An introduction to the study of ancient Greek literature in translation, with particular attention to historical-cultural conditions obtaining between the late 8th and late 5th centuries which made possible the birth of four major genres in rapid succession of one another: epic, lyric, tragedy, and history. In addition to primary source readings (selections from the Iliad and the Odyssey, lyric poetry, the tragedies, and Herodotus), study of each genre will be accompanied by secondary readings on both the genres and individual selections.

**Humanities 209: Topics in Mythology and Religion in the Classical World**

The course provides a systematic in-depth study of the major mythological characters, deities and myths of (mostly) the Greeks and the Romans through the use of both primary and secondary source material, visual and literary. The approach will be thematic and we will explore the nature and scope of mythology as well as its relation to religion, history and art. Comparisons with associated mythologies of the ancient Mediterranean world will be in place in order to demonstrate the broader historical and cultural framework. The myths and religion will also be studied in terms of their endurance and relevance in the western world as well as in popular culture. Finally, they will function as a setting for the discussion of matters of spirituality in the contemporary world.

**Humanities 210: Religions of the World**

This course will expose students to a comparative study of five of the world's main religious traditions, exploring those traditions through their literatures, while focusing also on origins, cultural contexts, histories, beliefs, and practices. Through reading, discussion, and visual appreciation of artistic renditions of religious world-views, students will gain valuable understanding of traditions other than their own, contributing to their broadened and deepened awareness of the world.

**Humanities 221: History on Film/Film on History**

Representations of classical myths and ancient history, of the First, Second and Cold Wars have shaped our understanding of our historical past. Often film has inspired people to learn more about this past. This course aims to examine how film has affected our perception of major world historical moments. We will spotlight key figures, events, literary sources and cultural issues which have been subject of major films. Then we will analyse the historical and literary evidence underlying these films and appreciate the differences between the scholarly constructions of the world and the cinematographic representations. **PS&IR elective. OU Level 5. Prereq: History 120**

**Humanities 230: The World of Alexander the Great**

The principal objective of this three credit course is to provide a fundamental examination of the legacy of Hellenism, anchoring the achievements of Alexander the Great in the larger history of Greek antiquity. The course will consist of segments on mythology and legends; history and geography; ancient literature; philosophy, and politics; art and architecture. The course will feature visits to archaeological sites relating to the history of ancient Macedonia and aspects of Alexander's military campaigns.

**Humanities 233: Thessaloniki, a city of faiths**

The main chronological setting of the course covers broadly speaking half a millennium with an emphasis on the Ottoman period of the city when a Jewish majority coexisted with an Ottoman administration and a historically important Orthodox population. The discussion will also focus on the first half of the twentieth century, a period of major transformations as far as the religious identities of the city's inhabitants are concerned. The course will be organized thematically and the idiosyncrasies of the unique city of Thessaloniki in relation to the three Abrahamic faiths (with an emphasis on Judaism) are investigated in some depth. The thematic areas chosen for examination are: the religious importance of the Ottoman millet system, the arrival of the Sephardic Jews, the Orthodox local inhabitants, the city as a center for religious dissenters, the periods of peaceful coexistence, the development of ethnicities and the associated periods of conflicts, the Holocaust of the Jews of Thessaloniki, its consequences and effects (a shattered community, the difficulties of surviving and returning to the city), the city's religious and symbolic value through history and today.

**English/Humanities: 246 American Literature and Culture**

This course aims to provide students with insights into contemporary American literature, culture and society through an examination of selected literary texts and non-fictional sources which reflect the socio-cultural contexts of particular 'moments' in America's historical trajectory from the mid-nineteenth century to the present. Students will be exposed to a variety of texts from different fields including: literature, the visual arts, political/historical essays/commentaries, and music. **(OU Level 5)**

**Philosophy 101: Introduction to Philosophy and Critical Reasoning**

The primary aim of this course is to train students in the skills required for critical analysis of discourse. Its secondary aim is to apply these critical analytic skills to the activity of philosophizing. Accordingly, the course is divided into two parts. In the first, the main concern is with the validity of inferences. Students learn sentential and predicate calculus so that they are in a position to check the validity of any argument proposed. In the second part, the main concern is inquiry and to this purpose the students first apply logical theory to methodology (induction, hypothesis, abduction, explanation, reduction theory, definition, distinction, issue, problem), and then apply all these techniques to the discussion of two problems: the existence of God and the problem of mind and its relation to matter. GER requirement.

**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. GER requirement.

**Philosophy 208: Philosophy of Language**

Language is the basis of communication, thought, and learning; it pervades all aspects of our lives. In the course, we shall reflect on both the philosophical understanding on language and on the relevance of language for philosophy. The relation of language and thought is one issue, a second being the relation of language and the world (the issue of "meaning" discussed in connection with the later Wittgenstein in particular). Furthermore, we shall discuss what the analysis of language can do for philosophical problems outside the philosophy of language (knowledge, existence, what is "good" philosophy?). **Prereq: Philosophy 101**

**Philosophy 220: History of Ancient Greek Philosophy**

The aim of this course is to provide an introduction to the philosophical, scientific and humanistic perspectives that emerged in ancient Greece, in the intellectual debate that Bruno Snell referred to as "The Discovery of the Mind." The discussion of the origin and ultimate constitution of human life and the cosmos, the role of gods in human affairs, the kind of knowledge and education one needed to live well, as well as the possibility of gaining such knowledge serves as the background to the emergence of these new perspectives on life. The course presents various responses to these questions as they were debated in the ancient Greek world by the pre-Socratics, Socrates and Plato, and Aristotle and his successors. **Prereq: Philosophy 101**

**Philosophy 235: Artificial Intelligence**

This introduction to the subject of Artificial Intelligence (AI) will have as its central subject the question "Can machines think?" The course considers the history of "thinking machines" and the current state of the art. Typical cognitive tasks performed by machines involve visual perception and recognition, understanding language and translation, diagnosing a patient, and playing games such as chess. The course asks at what point we may say that machines are intelligent (Turing Test); what is computation, what is computable, and what is decidable (Church-Turing Thesis); whether thought is simply a kind of computation and the human mind a kind of computer (Classical symbol-manipulating AI vs. connectionism/neural networks); whether there are aspects of human intelligence that cannot be transformed into algorithms; and the relation between AI and the building of robots and other "autonomous agents." **Prereq: Computer Science 101 or 105, Philosophy 101**

**Philosophy 236: Philosophy of Computing**

The course will deal with three main questions: What is computing? What could computing do? What should we do with computing? In the first section it will investigate which processes in the world are computational, be they analog or digital. The question "What could computing do?" deals with the limits of what is computable, both in principle, and given that the time and space we have are not infinite (complexity). The third question concerns the ethical and social relevance of computers. Finally, the existence of computers has produced various kinds of ethical problems, dealing mostly with access to information, e.g., privacy and surveillance ("big brother is watching"), computer security, hacking and cracking. The course will be offered simultaneously with several other universities in Europe and the US. **Prereq: Philosophy 101, Computer Science 101**

**Architecture 120: Architecture in Greece through the Ages: Ancient to Contemporary**

The course will be an examination of the architecture created in Greece from the Archaic to the Contemporary period. Important examples from all periods and styles are going to be examined architecturally as well as products of the period that produced them. The students will be exposed to major architectural works from different periods, some of the most important of their style in the world and will be able to visit most of them, since several of the examples are in the city and the country

of their studies. The study will start chronologically from ancient times, covering the basic and most essential examples of the Greek periods (Archaic, Classical, and Hellenistic). It continues with the Roman, Early Christian, Byzantine and Ottoman architecture. The course finishes with the study of Modern Greek architecture after 1830's, along with the establishment of the Modern Greek State and includes examples of Neoclassical, Eclectic, Modern and Contemporary styles. **May be taken as free elective.**

**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. **May be taken as Humanities/Group A GER**

**Art History 121: Greek Art through the ages: Ancient to Modern**

This course will provide a compact yet comprehensive chronological study of the arts of Greece from ancient to modern times. The examination of the arts will also allow for a better understanding of the complexities of political, social, and religious over time. Key periods covered include antiquity, the Roman, Early Christian and Byzantine Eras, the Ottoman Occupation, and the establishment of the Modern Greek State. NB This course is offered on an accelerated timetable for study abroad students. **May be taken as Humanities/Group A GER**

**Art 130: Introduction to Photography, from the analog to digital era**

This course is designed to provide students with a comprehensive foundation in the art and techniques of photography. Through a combination of theoretical knowledge and practical hands-on experience, this course aims to develop students' creative vision, technical skills, and critical thinking in the realm of photography. Throughout the semester, students will be expected to photograph consistently, present assignments and projects in class and develop skill in using photography as a tool for visual communication. Class time will consist of lectures, demonstrations, critique of students' work, lab work and field trips. In addition, students will be exposed to key photographic artistic movements and will learn to analyze and appreciate various genres and styles of photography.

In addition to technical skills, this course will foster students' creative development by encouraging experimentation and self-expression. Through regular assignments and projects, students will learn to apply theoretical concepts and technical skills to create visually engaging and conceptually meaningful photographs. Critiques and discussions will provide opportunities for constructive feedback and peer collaboration, promoting growth and refinement of artistic vision. Lastly, the course will introduce students to basic image processing, the digital equivalent of the darkroom, equipping them with the necessary skills to enhance their photographs and bring their vision to life.

**Art History 201: Modern Art and Architecture**

This course offers a study of styles of the modern period, with special emphasis on the work of Manet, the Impressionists, and the Post-Impressionists who laid the groundwork for the art of the 20th century. There will be a close look at the social conditions and metaphysical concepts which led to the rebellion in the arts in the second half of the 19th century. The styles of Expressionism, Cubism, Abstract Art, Futurism, the Metaphysical School and Surrealism will then be analyzed.

**Prereq: Art 120 or Art History 103**

**Art History 202: Late Modern Art**

This course covers the period from 1940 to the present, examining painting, sculpture, architecture, and allied arts both in the USA and Europe. Emphasis is placed upon the various movements and the plethora of concepts that shaped the artistic fabric of the West since World War II. **Prereq: Art 120 or Art History 103**

**Art History 220: Ancient Greek Art and Architecture**

This course surveys Ancient Greek art and architecture from the Early Iron Age through the Hellenistic period. Following an introduction to the nature of art, its various uses, and approaches to its interpretation, the course will provide a brief historical background for the major periods in Greek art. Each period will then be examined in detail, with particular attention to defining stylistic features, and to examining representative works in each of the genres (sculpture, painting, architecture, minor arts). **Prereq: Art 120 or Art History 103**

**Art History 221: Early Christian and Byzantine Art**

This course offers a survey of Early Christian and Byzantine art and architecture. It covers the period between the early 4th and 15th centuries, and considers monuments from eastern and western parts of the Byzantine empire. It comments on and compares Byzantine creations from Italy and Asia Minor, while concentrating on Byzantine Thessaloniki and other important Greek centers of Byzantine culture, such as Mount Athos and Mistra. **Prereq: Art 120 or Art History 103**

**Art History 224: Modern Greek Painting**

This course presents a survey of Modern Greek painting starting with the second half of the nineteenth century, when Greek painting acquired the characteristics of a European form of artistic expression. It continues with an examination of Greek painting during the twentieth century. Emphasis is placed upon the artistic movements and various schools formed during these periods, and upon influences from European and American art and their implications for Greek painting. Visits to local galleries and museums will provide first-hand contact with works of art being studied. **Prereq: Art 120 or Art History 103**

**Art History 299: Greek Life and Culture Museum Practicum**

This compact and comprehensive one - credit course, concentrates on Greek life, culture and heritage along with museum practicum. The material will be examined through visits to museums and archaeological sites, along with a number of lectures and activities that the students will attend. May be taken as a Free Elective

**Music 120: Traditional and Contemporary Greek Music**

This course will provide students with an introduction to the historically rich and varied traditions in Greek music. The principal focus will be on church music, folkloric song and dance, and contemporary variations of “lay” music. Discussion will also refer to the place of music in ancient Greek society. Knowledge of Greek is helpful but not required.





## DIVISION of SCIENCE *and* TECHNOLOGY

### Interim Chair

**Dr. Evangelos Chatzistavros, Assistant Professor (Computer Science)(Reg)**

BSc, Electrical and Computer Engineering, Democritus University of Thrace, Greece; MSc, Communication Networks, Democritus University of Thrace, Greece; Ph.D., Electrical and Computer Engineering, Democritus University of Thrace

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### Coordinator Biological Sciences

**Dr. Mary Kalamaki, Associate Professor (Chemistry-Biotechnology) (Reg)**

DVM, School of Veterinary Medicine, Aristotle University, Greece;

MS, in Preventive Veterinary Medicine: Public Health and Food Safety. University of California, USA;

MS, Food Science. University of California, USA; Ph.D., in Agricultural and Environmental Chemistry with Designated Emphasis in Biotechnology. University of California, USA

### FACULTY

**Dr. Andreas Anestis, Associate Professor (Biological Sciences) (Reg)**

*BSc Biology, Aristotle University of Thessaloniki, Greece; PhD in Biology, Aristotle University of Thessaloniki, Greece; BS/MS in Film Studies, Aristotle University of Thessaloniki, Greece*

**Dr. Elena Antonakou, Adjunct Professor (Chemistry) (Adj)**

*BSc in Chemistry, Aristotle University of Thessaloniki, Greece; MSc in Environmental Biotechnology, University of the West of England, UK; PhD in Polymer Chemistry, Aristotle University of Thessaloniki, Greece*

**Dr. Alexander Astaras, Associate Professor (Computer Science) (Reg)**

*BSc, Physics, Oberlin College, OH, USA; PhD in Electronics Engineering, The University of Edinburgh, Scotland*

**Dr. Grigoris Baglavas, Associate Professor (Computer Science) (Reg)**

*BS, Mathematics, Aristotle University of Thessaloniki, MSc, Telematics, University of Sheffield, PhD, Computer Science, University of Macedonia*

**Dr. Eleftheria Barlaka, Adjunct Professor (Biology) (Adj)**

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**Dr. Dimitrios Chatzidimitriou, Adjunct Professor (Physics)(Adj)**

*Diploma in Electrical and Computer Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece; PhD, Electrical and Computer Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece*

**Mr. Christos Christodoulou, Adjunct Instructor (Computer Science) (Adj)**

*BSc, Physics, Aristotle University of Thessaloniki, Greece. MSc Information Technology, University Aofston in Birmingham, U.K.*

**Dr. Vasilios Daskalogiannis**, Adjunct Professor (Mathematics) (Adj)

*BS, Mathematics, Aristotle University of Thessaloniki, Greece; MSc in Pure Mathematics, Aristotle University of Thessaloniki, Greece; PhD, Mathematics, Department of Mathematics of the Aristotle University of Thessaloniki*

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*B.Sc. in Molecular Biology and Genetics, Democritus University of Thrace, Greece; MS in Translational Research in Biomedicine, Democritus University of Thrace, Greece; PhD in Food Science and Nutrition, University of the Aegean, Greece.*

**Dr. Valasia Iakovoglou**, Adjunct Professor (Ecology) (Adj)

*B.S. Forestry, Democritus University of Thrace, Greece; B.S Forest Biology, Natural Resources Conservation, Iowa State University, USA; M.Sc. Urban Forestry, Natural Resources Conservation, Department of Forestry, Iowa State University, USA; Ph.D. Ecophysiology/Silviculture, Department of Natural Resources Ecology and Management, Iowa State University, USA*

**Dr. Konstantinos Kanakoglou**, Adjunct Professor (Physics) (Adj)

*B.Sc. in Physics, Aristotle University of Thessaloniki, Greece; M.Sc. in Pure Mathematics, Aristotle University of Thessaloniki, Greece; Ph.D. in Mathematical Physics, Aristotle University of Thessaloniki, Greece*

**Mr. Pantelis Kaplanoglou**, Adjunct Instructor (Computer Science) (Adj)

*BSc – Software Engineering, A.T.E.I. of Thessaloniki, Greece; MSc – Web Intelligence, A.T.E.I. of Thessaloniki, Department of Information Technology, Thessaloniki, Greece; PhD Candidate – Machine Learning for Computer Vision Aristotle University of Thessaloniki, School of Informatics*

**Mr. Menelaos Karamichalis**, Adjunct Instructor (Computer Science) (Adj)

*BA in Physics, Berea College, Berea, KY, USA; BS in Electrical Engineering, Washington University, St. Louis, MO, USA; MS in Electrical Engineering, Washington University, St. Louis, MO, USA; Master of Engineering Management, Washington University, St. Louis, MO, USA*

**Mr. Athanasios Karapatsias**, Adjunct Instructor (Mathematics) (Adj),

*B.Sc. in Mathematics, Aristotle University of Thessaloniki, Greece; MA in International Politics and Security Studies., University of Bradford, UK*

**Dr. Stamatis Katsikas**, Adjunct Professor (Mathematics) (Adj),

*B.Sc. in Physics, Aristotle University of Thessaloniki, Greece; M.Sc. in Applied Mathematics, Imperial College, London, UK; M.Sc. in Mathematical Finance, Queen Mary, University of London, UK; PhD in Interdisciplinary Mathematics & Complexity Science, University of Warrnick, UK*

**Mr. Rossetos Kollias**, Adjunct Instructor (Computer Science) (Adj),

*B.Sc. in Mathematics, University of Crete, Greece; M.Sc. in Advanced Information Systems, University of Piraeus, Greece*

**Mr. Orestis Kourakis**, Adjunct Instructor (Digital Photography) (Adj)

*BSc, Agriculture, School of Agriculture, Aristotle University of Thessaloniki, Greece; MA in Photography, Savanna College of Art and Design, U.S.A*

**Mrs. Danai Kyriaki**, Adjunct Instructor (Biology)(Adj)

*BSc, Biology, University of Bristol, Bristol, United Kingdom; MSc, Wild Animal Biology, Royal Veterinary College, University of London, London, United Kingdom; MBA, Management Concentration, American College of Greece (ACT), Thessaloniki, Greece*

**Dr. George Leonidis**, Adjunct Professor (Chemistry)(Adj)

*B.Sc. in Chemistry, Aristotle University of Thessaloniki, Greece; M.Sc. in Organic Chemistry, Aristotle University of Thessaloniki, Greece; PhD in Organic Chemistry, Aristotle University of Thessaloniki, Greece*

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*B.Sc., Physics, Aristotle University of Thessaloniki, Greece; M.Sc., Materials' Science, Aristotle University of Thessaloniki, Greece*

**Mr. Emmanuel Maou**, Associate Professor (Mathematics)(Reg)

*BS, Mathematics, Iowa Wesleyan College, U.S.A. MSc, Applied Mathematics, University of Iowa, U.S.A.*

**Dr. Kyriaki Mengoudi**, Assistant Professor (Computer Science) (Reg)

*BS in Mathematics, Department of Mathematics, Aristotle University of Thessaloniki, Greece; MS in Applied Statistics and Datamining, Department of Mathematics and Statistics, University of St Andrews, Scotland; PhD in Computer Science, Department of Computer Science, University College, London, UK*

**Mr. Brian Morris**, Adjunct Instructor (Computer Science)(Adj)

*BS, Computer Processing, Illinois Central College, U.S.A.; BFA, The School of the Art Institute of Chicago, U.S.A.; MA Digital Arts, University of the Arts London at Camberwell, London, United Kingdom*

**Dr. Konstantinos Ouzounthanasis**, Adjunct Laboratory Instructor (Organic Chemistry)(Adj)

*B.Sc. in Chemistry, Aristotle University of Thessaloniki, Greece; M.Sc. in Chemistry, Aristotle University of Thessaloniki, Greece; PhD in Organic Chemistry, Aristotle University of Thessaloniki, Greece*

**Mr. Apostolos Sioros**, Adjunct Instructor (Mathematics) (Adj),

*B.Sc. in Mathematics, Aristotle University of Thessaloniki, Greece; M.Sc. in Health Statistics and Data Analysis, Aristotle University of Thessaloniki, Greece*

**Mr. Efstratios Stratoglou**, Adjunct Instructor (Mathematics) (Adj),

*B.Sc. in Mathematics, Aristotle University of Thessaloniki, Greece; M.Sc. in Theoretical Mathematics, Aristotle University of Thessaloniki, Greece*

**Dr. Elpida Tsintsifa**, Adjunct Professor (Nutrition) (Adj)

*BS Exercise Science - Aristotle University of Thessaloniki, Greece; MS Exercise and Movement Science University of Oregon, USA; PhD in Sports Medicine, Aristotle University of Thessaloniki, Greece*

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*B.Sc. in Chemistry, Aristotle University of Thessaloniki, Greece; MSc in Inorganic Chemistry and Inorganic Materials, Aristotle University of Thessaloniki, Greece; PhD in Inorganic Chemistry, Aristotle University of Thessaloniki, Greece*

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**Dr. Iosif Viktoratos**, Adjunct Professor (Computer Science)(Adj)

*B.Sc., MSc in Computer Engineering and Informatics, University of Patras, Greece; MSc Informatics and Management, Aristotle University of Thessaloniki, Greece; PhD from department of Economic Sciences, Aristotle University of Thessaloniki, Greece*

## **Mission**

The division's mission is to provide education that meets the increased demands of today's globalized professional environment, both in Greece and internationally. The core pillars of the division's development are teaching, research, and engagement with society and the economy. Specifically:

- the thorough scientific training of students with regard to their professional future
- the expansion of the division members' research activity and collaboration with equivalent institutions and scientific organizations in Greece and abroad
- the promotion of the division's work

## **ACADEMIC PROGRAMS**

The Division of Technology & Science offers the following programs:

### **GRADUATE DIPLOMA PROGRAMS**

- Graduate Diploma in Data Science

### **DEGREE PROGRAMS**

- Bachelor of Science in Biological Sciences (ACT & The Open University, U.K.)
- Bachelor of Science in Computer Science (ACT & The Open University, U.K.)
- Bachelor of Science in Business Computing (ACT & The Open University, U.K.)
- Bachelor of Science in Engineering (ACT & Washington University at St. Louis, U.S.A.)
- Minor in Computer Science
- Minor in Biological Sciences
- Minor in Multimedia and Web Development
- Minor in Data Science and Artificial Intelligence
- Minor in Mathematics

### **CERTIFICATE PROGRAMS**

- Cisco Certified Networking Associate Program
- Certificate in Multimedia and Video Game Design
- Certificate in Web Development

## GRADUATE PROGRAMS AT THE TECHNOLOGY & SCIENCE DIVISION

### GRADUATE DIPLOMA IN DATA SCIENCE

The Graduate Diploma in Data Science is designed for professionals from diverse backgrounds such as Science (Mathematics, Physics, Chemistry, Biology), Engineering, Biomedicine, Computer Science, Pharmaceutical and Medical sector, etc., willing to enhance their personal skills and expertise on the state-of-the-arts area of Big Data and Artificial Intelligence and directly apply this knowledge to their respective fields. The flexibility provided by the hybrid format of this program, allows candidates to balance their studies with their busy schedules and sustain their work-life balance. This certificate is an ideal choice for those seeking to make a positive impact in their organizations and industries.

#### **Program Delivery**

One week face-to-face and one week online teaching (synchronous teaching and asynchronous work)

#### **Program Duration and Curriculum**

This program has a duration of two graduate terms (approx. 16 weeks). The suggested curriculum includes a total of four (4) courses. For further information about graduate applications:

Enrollment Management Office

Bissell Library, First Floor, 2310-398398

Email: [admissions@act.edu](mailto:admissions@act.edu)

### **GRADUATE DIPLOMA IN DATA SCIENCE - PROGRAM OF STUDY**

**Academic Term 1:** MSDS 600: Introduction to Data Science

MSDS 610: Data Engineering

**Academic Term 2:** MSDS 650: Data Analytics

MSDS 680: Machine Learning

#### **Further studies**

Regis University shall accept into its MS in Data Science program any recipient of ACT's Graduate Diploma in Data Science who properly applies to Regis for admission, fulfills all applicable admission requirements, including, but not limited to, demonstrating through an official transcript issued by ACT that s/he maintained a cumulative grade point average of 3.0 or higher at ACT.

Regis University has been designated as a National Center for Excellence in Information Assurance Education by the NSA and DHS since 2007, is home to ABET- and GAC-accredited programs, and we're proud to produce graduates at both the undergraduate and graduate level who continue on to become leaders and stewards of society. The MS in Data Science offered at Regis University has been selected as one of the Best Online Master's in Data Science Programs, as well as Most Affordable Master's in Data Science in 2023 (source: Fortune Education).

## GRADUATE DATA SCIENCE COURSES

### **MSDS 600: Introduction to Data Science**

Introduces foundational topics of the data science life cycle. It covers essential concepts and techniques necessary for working with data, extracting insights, and building predictive models. The key topics covered in this course include: data manipulation, exploratory data analysis, data visualization and statistical modeling. Additionally, it explores various data science challenges and applies cutting-edge algorithms such as classification, regression techniques and recommendation systems to solve them. Both R and Python programming languages are used throughout the course for data processing and modeling tasks.

**Prerequisite(s): Completion of Python self-assessment, or Python coding experience.**

*Consult your admissions counselor, academic success coach, or faculty advisor on the details regarding the Python prerequisite.*

### **MSDS 610: Data Engineering**

Presents techniques for designing, building, and managing information with relational databases, NoSQL databases, and big data infrastructure. Provides hands-on experience running the MapReduce algorithm on Hadoop ecosystem.

### **MSDS 650: Data Analytics**

Focuses on techniques for exploring and analyzing large datasets to uncover hidden patterns, relationships and insights that can aid in decision-making. Techniques include experimental design, hypothesis testing, probability distributions, classification and clustering algorithms. Additionally, the course presents valuable processing and modeling techniques for text data specifically applied in Natural Language Processing (NLP) and Information Retrieval (IR). **Prerequisite(s): MSDS 600.**

### **MSDS 680: Machine Learning**

Emphasizes on the use of data in the field of Machine Learning (ML), examining both theory and software implementation of models, methods and learning algorithms. Topics span over different ML paradigms, supervised, unsupervised, self-supervised and reinforcement learning. It starts with the basics of the Artificial Neuron and extends up to Deep Neural Networks (DNN) and Deep Learning methods, with source code provided for example solutions on tasks that use diverse types of data. Additionally, classic ML approaches for classification and clustering (Bayesian, k-NN, Decision Trees, k-Means) are investigated and compared using proper performance metrics, according to a quantitative evaluation assessment strategy.

## UNDERGRADUATE PROGRAMS AT THE TECHNOLOGY & SCIENCE DIVISION

### DEGREE PROGRAMS

#### BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES

In the face of global challenges such as climate change and environmental management, population growth and food security, biotechnology and human health, the Biological Sciences have never been more important. Recent discoveries in the field have advanced at breath-taking speeds with beneficial outcomes for humankind.

ACT's Biological Sciences degree program provides graduates with a solid foundation of scientific knowledge at the molecular, biochemical, cellular, organismal, and ecosystemic level. Furthermore, it equips graduates with practical laboratory experience and research skills, which are essential and valuable in a wide range of advanced studies or employment options.

A key strength of this degree is the exposure to the breadth of biological sciences, reflecting the interdisciplinary nature of modern biology, and the implementation of the scientific methodology in designing and executing experimental investigations, analyzing data, interpreting results, communicating findings via writing scientific papers while critically evaluating relevant literature.

#### **Degree Requirements**

In order to receive the BS degree, the student must have fulfilled all the GEP and major requirements and have completed at least 124 US credit hours with an overall G.P.A of 2.0 or better. All Biological Science majors must complete a two-semester course sequence: Thesis I and Thesis II. According to NECHE Standards, students must complete at least one fourth of their undergraduate program, including advanced work in the major or concentration, at the institution awarding the degree. As a consequence, all candidates for an ACT degree must have been in residence at the College for at least during the last two semesters of full time instruction, assuming availability and equivalency of transferable courses.

**Open University degree structure:** The program in Biological Sciences is currently validated by Open University: under this scheme, 19 courses (360 UK credits) out of the 36 courses required for the Bachelor degree are validated by Open University. Students must necessarily take the fourth year courses at ACT. Successful students will receive a Bachelor's degree from Open University in addition to the ACT degree for a single course of studies by meeting the following common set of requirements (in addition to meeting General Education Requirements).

## Major Requirements

### OU Level 4

Anatomy and Physiology 115 - Integrated Human Anatomy and Physiology I  
 Biology 112 - Principles of Biology  
 Biology 113 - General Biology 2  
 Chemistry 117 - Chemistry for Biological Sciences  
 Nutrition 130\* - Fundamentals of Human Nutrition  
 Statistics 211\* - Introductory Statistics with R

### OU Level 5

Biology 201 - Foundations of Microbiology  
 Biology 230 - Genetics and Molecular Biology  
 Chemistry 215 - Organic Chemistry I  
 Chemistry 216 - Organic Chemistry II  
 Biology 320 - Biochemistry  
 Biology 330 - Cell Biology and Histology

### OU Level 6

Biology 350 - Microbiology and Infectious Diseases  
 Biology 410 - Principles of Epidemiology and Public Health  
 Biology 420 - Environmental Health and Toxicology  
 Biology 430 - Biotechnology Principles and Applications  
 Biology 450 - Immunology  
 Biology 493 - Thesis I  
 Biology 494 - Thesis II

### Other Degree requirements

Anatomy and Physiology 116 - Integrated Human Anatomy and Physiology II  
 Biology 299 - Inquiries in the Biological Sciences  
 Biology 400\* - Senior Seminar  
 Mathematics 120\* - Calculus I for Science and Engineering  
 Philosophy 310\* - Bio Ethics  
 Physics 120\* - University Physics I, for Science and Engineering  
 Free Electives  
 1 course from any of the courses listed in the College Catalog or Practicum 300 - Practicum.

### General Education Requirements (GER)

Students must complete the GER requirements, as described earlier in this Catalogue

*\*Any Major courses above marked with an asterisk may also be taken to meet part of the GER Suggested Program of Studies*

**BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES  
SUGGESTED PROGRAM OF STUDY**

**Year One**

Biology 112 (OU)  
 Biology 113(OU)  
 Nutrition 130 (OU)  
 Chemistry 117 (OU)  
 Biology 299  
 Mathematics 120  
 CSC 101 or CSC 105  
 English 101  
 English 102  
 Politics 101

**Year Two**

Anatomy and Physiology 115 (OU)  
 Anatomy and Physiology 116  
 Statistics 211(OU)  
 Biology 201(OU)  
 Biology 230 (OU)  
 Chemistry 215 (OU)  
 Psychology 101  
 History 120  
 English 204  
 Philosophy 101

**Year Three**

Chemistry 216 (OU)  
 Biology 320 (OU)  
 Biology 330 (OU)  
 Biology 350 (OU)  
 Biology 410 (OU)  
 Philosophy 310  
 Physics 120  
 Art course (English 120 or Art 120 or Art 130 or Music 120)  
 Economics 101

**Year Four**

Biology 493(OU)  
 Biology 494(OU)  
 Biology 420 (OU)  
 Biology 430 (OU)  
 Biology 450 (OU)  
 Biology 400  
 Free Elective

*NOTE: The above is a suggested program of study. Your actual program of study will be produced by your Academic Advisor and/or Division Chair.*

## **BACHELOR OF SCIENCE IN COMPUTER SCIENCE**

Contemporary Information Technologies change rapidly in all levels of scope from hardware to conceptual. The ACT program on Computer Science aims at offering its students a solid foundation that both addresses the fundamentals and provides adaptability in a lifelong career with continuous learning.

The ACT Computer Science graduate receives a solid and thorough education in fields of computing that interconnect as well as provide a deep and wide background in contemporary computer science. The program is structured in threads, with some capstone courses unifying among them and a set of Mathematics courses providing necessary background knowledge for the contemporary computer scientist.

### **Degree Requirements**

In order to receive the BS degree, the student must have fulfilled all the GEP and major requirements and have completed at least 121 US credit hours with an overall G.P.A of 2.0 or better. All Computer Science students must complete a two-semester sequence Thesis I and II course. According to NECHE Standards, students must complete at least one fourth of their undergraduate program, including advanced work in their major or concentration, at the institution awarding the degree. As a consequence, all candidates for an ACT degree must have been in residence at the College for at least during the last two semesters of full time instruction, assuming availability and equivalency of transferable courses.

**Open University degree structure:** The program in Computer Science is currently validated by Open University: under this scheme, 24 out of the 40 courses required for the Bachelor degrees are validated by Open University. Students must necessarily take the fourth year courses at ACT. Successful students will receive a Bachelor's degree from Open University in addition to the ACT degree for a single course of studies by meeting the following common set of requirements (in addition to meeting General Education Requirements).

### **Major Requirements**

#### **OU Level 4**

Computer Science 105 *	Introduction to Programming I - Structured Programming (OU)
Computer Science 106	Introduction to Programming II - Object Oriented Programming (OU)
Computer Science 205	Business Data Management (OU)
Computer Science 215	Algorithms & Data Structures (OU)
Computer Science 230	Systems Programming (OU)
Mathematics 120 *	Calculus I for Science and Engineering (OU)
Statistics 210	Statistics with R
<b><u>Business Elective (1 of the following is required)</u></b>	
Accounting 101	Financial Accounting (OU)
Economics 101 *	Introductory Macroeconomics (OU)
Marketing 101	Introduction to Marketing (OU)

**OU Level 5**

Computer Science 206	Web Development (OU)
Computer Science 300	Mobile Applications Programming (OU)
Computer Science 306	Advanced Web Development (OU)
Computer Science 310	Hardware & Computer Architecture (OU)
Computer Science 312	Database Management Systems (OU)
Computer Science 340	Introduction to Artificial Intelligence and Machine Learning (OU)
Computer Science 450	System Analysis and Design (OU)
Mathematics 220	Discrete Mathematics (OU)

**OU Level 6**

Computer Science 321	Operating Systems (OU)
Computer Science 322	Computer Networks I (OU)
Computer Science 325	Distributed Applications (OU)
Computer Science 412	Object Oriented Design Patterns (OU)
Computer Science 421	Computer Systems Security (OU)
Computer Science 443	Capstone Project I (Thesis I) (OU)
Computer Science 444	Capstone Project II (Thesis II) (OU)

Major Elective (1 of the following is required)

Computer Science 219	Video Game Design (OU)
Computer Science 330	Introduction to Mobile Robotics Programming (OU)
Computer Science 333	Computer Networks II (OU)
Computer Science 422	Advanced DBMS (OU)
PRACTICUM 300	Practicum (OU)

**Mathematics and other CS Requirements**

Computer Science 192 *	Object Oriented Programming with Python
Mathematics 101	Finite Mathematics

**Free Electives**

4 courses from any of the courses listed in the College Catalog

*\*Any Major courses above marked with an asterisk may also be taken to meet part of the GER Suggested Program of Studies*

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE SUGGESTED PROGRAM OF STUDY

### Year One

Computer Science 105 (OU)  
 Computer Science 106 (OU)  
 Mathematics 120 (OU)  
 Mathematics 101  
 Computer Science 192  
 English 101  
 English 102  
 Politics 101  
 Philosophy 101 Natural Science

### Year Two

Computer Science 205 (OU)  
 Computer Science 215 (OU)  
 Computer Science 230 (OU)  
 Computer Science 312 (OU)  
 Computer Science 340 (OU)  
 Computer Science 450 (OU)  
 Statistics 210 (OU)  
 Business Elective (OU)  
 English 204  
 Philosophy 203

### Year Three

Computer Science 206 (OU)  
 Computer Science 300 (OU)  
 Computer Science 306 (OU)  
 Computer Science 310 (OU)  
 Computer Science 325(OU)  
 Mathematics 220 (OU)  
 Art  
 Psychology 101  
 Free Elective  
 Free Elective

### Year Four

Computer Science 321 (OU)  
 Computer Science 322 (OU)  
 Computer Science 412 (OU)  
 Computer Science 421 (OU)  
 Computer Science 443 (OU)  
 Computer Science 444 (OU)  
 Major Elective (OU)  
 Free Elective  
 Free Elective  
 History 120

*NOTE: The above is a suggested program of study that fulfils the graduation requirements in Computer Science. Your actual program of study will be produced by your Academic Advisor and/or Division Chair.*

## **BACHELOR OF SCIENCE IN BUSINESS COMPUTING**

The degree in Business Computing is a hybrid program that provides an excellent blend of Computing technologies and Business knowledge. The program covers a breadth of Information Technologies (electronic office, programming, databases, multimedia, networking and the web) and focuses on fundamental areas of Business (Management, Marketing, Accounting, Finance and Economics). Graduates of the program will have the skills and training needed to understand Business functions, to analyze business-user information needs and to design and implement information systems.

The B.S. in Business Computing prepares the student for a career either in the field of Computer Science and its applications or in the field of Business. The program develops broadly educated and competent graduates ready to pursue professional careers or graduate studies in either Business or Computer Science.

### **Degree Requirements**

In order to receive the BS degree, the student must have fulfilled all the GER and major requirements and have completed at least 121 US credit hours with an overall G.P.A of 2.0 or better. All Business Computing students take a Research Methods course followed by a two-semester sequence Thesis I and II course. According to NECHE Standards, students must complete at least one fourth of their undergraduate program, including advanced work in their major or concentration, at the institution awarding the degree. As a consequence, all candidates for an ACT degree must have been in residence at the College for at least during the last two semesters of full time instruction, assuming availability and equivalency of transferable courses.

**Open University degree structure:** The program in Business Computing is currently validated by Open University: under this scheme, 24 out of the 40 courses required for a Bachelor's degree are validated by Open University. Students must necessarily take the fourth year courses at ACT. Successful students will receive a Bachelor's degree from Open University in addition to the ACT degree for a single course of studies by meeting the following common set of requirements (in addition to meeting General Education Requirements)—courses highlighted in bold are validated by Open University.

### **Major Requirements**

#### **OU Level 4**

Computer Science 105 *	Introduction to Programming I - Structured Programming (OU)
Computer Science 106	Introduction to Programming II - Object Oriented Programming (OU)
Computer Science 205	Business Data Management (OU)
Computer Science 215	Algorithms & Data Structures (OU)
Mathematics 115 *	Business Calculus (OU)
Statistics 210	Statistics with R
<b><u>Business Elective (2 of the following are required)</u></b>	
Accounting 101	Financial Accounting (OU)
Economics 101	*Introductory Macroeconomics (OU)
Management 101	Introduction to Management
Marketing 101	Introduction to Marketing (OU)

#### **OU Level 5**

Computer Science 206	Web Development (OU)
Computer Science 306	Advanced Web Development (OU)
Computer Science 312	Database Management Systems (OU)
Computer Science 340	Introduction to Artificial Intelligence and Machine Learning (OU)
Computer Science 450	System Analysis and Design (OU)
Finance 201	Financial Management
Management 201	Organizational Behaviour
Research 299	Research Methods

**OU Level 6**

Computer Science 322	Computer Networks I (OU)
Computer Science 325	Distributed Applications (OU)
Computer Science 443	Capstone Project I (Thesis I) (OU)
Computer Science 444	Capstone Project II (Thesis II) (OU)
Management 312	Operations Management

Major Elective (3 of the following are required)

Computer Science 219	Video Game Design
Computer Science 321	Operating Systems
Computer Science 330	Introduction to Mobile Robotics
Computer Science 333	Computer Networks II
Computer Science 412	Object Oriented Design Patterns
Computer Science 421	Computer Systems Security
Computer Science 422	Advanced DBMS
Economics 332	International Economics
Finance 210	International Money and Banking
Finance 220	Investment and Portfolio Management
Finance 232	International Finance
Management 302	Revenue Management
Management 303	Events Management
Management 305	HR in Hotel and Tourism
Management 306	Tourism and Real Estate Management
Management 341	Business in Greece and the EU
Marketing 301	Corporate Marketing Strategy
Marketing 303	Tourism e-business
Marketing 318	Global Marketing
Marketing 320	Marketing Research
Marketing 324	E-Marketing
Marketing 330	Consumer Behavior
Practicum 300	Practicum

**Mathematics and other Business Requirements**

Accounting 102	Managerial Accounting
Business 240/241	International Business Law
Mathematics 101	Finite Mathematics

**Business Elective (1 of the following is required)**

Accounting 101	Financial Accounting (OU)
Economics 101 *	Introductory Macroeconomics (OU)
Management 101	Introduction to Management
Marketing 101	Introduction to Marketing (OU)

**Computer Science of Business Elective**

1 Computer Science or Business course

**Free Electives**

1 course from any of the courses listed in the College Catalog

*\*Any Major courses above marked with an asterisk may also be taken to meet part of the GER Suggested Program of Studies*

**BACHELOR OF SCIENCE IN BUSINESS COMPUTING  
SUGGESTED PROGRAM OF STUDY**

**Year One**

Computer Science 105 (OU)  
 Computer Science 106 (OU)  
 Mathematics 115 (OU)  
 Business Elective (OU)  
 Mathematics 101  
 English 101  
 English 102  
 Politics 101  
 Philosophy 101  
 Philosophy 203

**Year Two**

Business Elective (OU)  
 Computer Science 205 (OU)  
 Computer Science 215 (OU)  
 Computer Science 450 (OU)  
 Statistics 210 (OU)  
 Accounting 102  
 Business Elective  
 English 204  
 Art course  
 Natural Science course

**Year Three**

Computer Science 206 (OU)  
 Computer Science 306 (OU)  
 Computer Science 312 (OU)  
 Computer Science 340 (OU)  
 Management 201 (OU)  
 Finance 201 (OU)  
 Research 299 (OU)  
 CS or BUS Elective  
 Business 240/241  
 Psychology 101

**Year Four**

Computer Science 322 (OU)  
 Computer Science 325 (OU)  
 Computer Science 443 (OU)  
 Computer Science 444 (OU)  
 Major Elective 01 (OU)  
 Major Elective 02 (OU)  
 Major Elective 03 (OU)  
 Management 312 (OU)  
 History 120  
 Free Elective

## MINORS

### **MINOR IN BIOLOGICAL SCIENCES** (for non-Biological Sciences majors only)

The Minor in Biological Sciences offers students a broad foundation in the principles of biology, providing insight into the structure, function, and evolution of living organisms. Designed to complement a wide range of majors, this minor equips students with essential scientific knowledge and analytical skills applicable to fields such as healthcare, environmental science, biotechnology, and education. Through a combination of core coursework and electives, students gain exposure to key areas including genetics, chemistry, cell biology, and physiology, fostering a deeper understanding of the natural world and preparing them for diverse career paths or further academic study.

#### **Minor Requirements**

Biology 112	Principles of Biology
Biology 113	General Biology 2
Chemistry 117	Chemistry for Biology
Anatomy and Physiology 115	Integrated Human Anatomy and Physiology I
Biology 201	Foundations of Microbiology
One course from the following:	
Biology 230	Genetics and Molecular Biology
Biology 320	Biochemistry
Anatomy and Physiology 116	Integrated Human Anatomy and Physiology II

### **MINOR IN COMPUTER SCIENCE** (for non-Computer Science/Business Computing majors only)

The Minor in Computer science provides to students; who are completing a bachelor's degree in another field of study, the fundamentals in a number of computer science fields.

#### **Minor Requirements**

Computer Science 105:	Introduction to Programming I – Structured Programming
Computer Science 106:	Introduction to Programming II - Object Oriented Programming
Computer Science 205:	Business Data Management
Computer Science 215:	Algorithms & Data Structures
Computer Science 312:	Database Management Systems,
Computer Science 325:	Distributed Applications
Minor Capstone Project *	

### **MINOR IN MULTIMEDIA AND WEB DEVELOPMENT**

(for non-Computer Science/Business Computing majors only)

The minor in multimedia and web development focuses on new media. The topics taught include interactive media production, professional web design, web programming and mobile app development. Students work in the areas of web page design, image design, creation and manipulation, image composition, 2-D graphics, and audio and video production and integration.

The students work in state-of-the-art multimedia labs, where they learn how to use software applications such as Adobe Professional Suite, Autodesk and Android Studio.

Graduates of this program are pursuing careers in this fascinating and rapidly expanding field, entering the market as media producers, information architects, web designers and app developers.

### **Minor Requirements**

Computer Science 105	Introduction to Programming I – Structured Programming
Computer Science 107/108	Digital Media Toolkit
Computer Science 206	Web Development
Computer Science 207	Multimedia II
Computer Science 300	Mobile Application Development
Computer Science 306	Advanced Web Development
Minor Capstone Project*	

### **MINOR IN DATA SCIENCE AND ARTIFICIAL INTELLIGENCE**

(for non-Computer Science/Business Computing majors only)

The minor in Data Science and Artificial Intelligence focuses on the emerging field of AI. The topics taught include an introduction to the Python programming language, knowledge representation, problem solving via search, logical and probabilistic reasoning and machine learning algorithms such as decision trees, Deep neural networks, supervised and unsupervised learning, state-of-the-art technologies and methodologies, data visualization, data processing and big data mining.

### **Minor Requirements**

Computer Science 105	Introduction to Programming I – Structured Programming
Computer Science 192	Object Oriented Programming with Python
Statistics 205/210/211	Introductory Statistics/Statistics with R
Computer Science 340	Introduction to Artificial Intelligence and Machine Learning
Computer Science 360	Introduction to Data Science
Computer Science 345	Applied Machine Learning and Deep Neural Networks
Minor Capstone Project*	

### **MINOR IN MATHEMATICS**

(for non-Computer Science/Business Computing majors only)

The minor in mathematics provides a solid foundation of quantitative and reasoning skills for work in any major

### **Minor Requirements**

Computer Science 180:	Discrete Structures
Mathematics 120:	Calculus I
Mathematics 121:	Calculus II
Statistics 205/210:	Introductory Statistics/Statistics with R
Mathematics 215/230:	Linear Algebra/Linear Algebra for Computer Science
One elective:	Mathematics 201: Calculus III or Mathematics 220: Discrete Mathematics

## CERTIFICATE PROGRAMS

### **NETWORKING ASSOCIATE CERTIFICATE PROGRAM (CISCO-CCNA)**

ACT is a local academy in Northern Greece offering the Cisco Certified Networking Associate program. This program is designed to meet the growing demand for Network specialists. Students who successfully complete the program are eligible to earn Cisco Certified Network Associate certification, by taking and succeeding the relevant CISCO examination.

1. Computer Science 322: Network Operating Systems and Administration
2. CS 333: Cisco Advanced LAN and WAN design (corresponds to the Cisco Networking Academy Semesters 3 and 4)

### **MULTIMEDIA AND VIDEO GAME DESIGN CERTIFICATE PROGRAM**

The Digital Media certificate focuses on the new media. The topics taught range from computer animation to interactive media production. Students acquire a solid foundation in multimedia software applications and design issues. They work in the areas of image design, creation and manipulation, image compositing, 2-D and 3-D graphics, and audio and video production and integration.

1. ART 130: Introduction to Photography from Analog to Digital Era
2. Computer Science 107: Digital Media Toolkit
3. Computer Science 207: Multimedia II
4. Computer Science 219: Video Game

*\*The capstone project is not a regular course, it is an independent project undertaken by the student under agreement with a faculty advisor. The faculty advisor provides only supervision and assessment of the project and not regular instruction. Upon completion of the project and by the pre-agreed deadline the student submits the project to the faculty advisor, who then assesses it and reports the pass or fail grade (pass  $\geq 75\%$ ) to the registrar's, who in turn issues the certificate. The registrar will keep all projects on file for a minimum of 2 years.*

### **WEB DEVELOPMENT CERTIFICATE PROGRAM**

The Web Development certificate focuses on the design and creation of a professional web site. The topics covered are separated into three different categories: Web Design Guidelines, Professional Web Design Software and Web Programming. The student is introduced to the latest design techniques for a web site and will get hands-on experience of the tools that professional web designers use.

1. Computer Science 105: Introduction to Programming I – Structured Programming
2. Computer Science 206: Web Development
3. Computer Science 306: Advanced Web Development
4. Computer Science 300: Mobile Application Development
5. Capstone Project

## UNDERGRADUATE TECHNOLOGY AND SCIENCE COURSES

*The courses listed below are expected to be offered at least every two years and a re-evaluation of the entire course curriculum is carried out every two years in order to maintain an updated list of course offerings*

### COMPUTER SCIENCE

#### **Computer Science 101: Digital Literacy**

This course provides a comprehensive introduction to digital literacy, encompassing both theoretical understanding and practical experience. It covers essential topics such as general-purpose computing, networks and the internet uses, information and data management, and social media. Within the field context of Computer Science, students gain knowledge of fundamental principles related to operating systems, human-computer interaction, networking and communication, architecture and organization, information management, cybersecurity, social issues, mobile computing, artificial intelligence tools, and professional practices. They learn to recognize and leverage these principles in their everyday organizational tasks. From a hands-on perspective, students acquire practical skills in using various operating systems (proprietary and FOSS), collaborative cloud platforms, word processing, managing spreadsheets, designing effective presentations, managing their projects, the internet and the world wide web. They also learn how to utilize web 2.0 tools for conducting research via online questionnaires and analyzing the collected data, content creation and delivery (including collaborative wikis, blogs), newsgroups, and social media platforms. The course equips students with the ability to develop and manage their personal digital identity, organize and process data effectively, and plan projects using modern web-based tools. Additionally, students engage in technical writing, collaborative informatics projects, public speaking, and presenting their work within specified time constraints. **May be taken as a Computer Science GER.**

#### **Computer Science 105: Introduction to Programming I – Structured Programming**

An introduction to computing and computer programming. Students are introduced to the basic elements of computing hardware, informatics and computer programming. Problem analysis and programming solutions are explained, planned, demonstrated and practiced using the Java or C programming languages. The course advances beyond basic computation and covers elements of structured programming in Computer Science and Software Engineering, instructing students to develop autonomy as sophisticated computer users, algorithmic thinkers and programmers. **May be taken as a Computer Science GER.**

#### **Computer Science 106: Introduction to Programming II – Object oriented programming**

The course provides a systematic coverage of Object Oriented Modeling and Applications. Topics include Object Models, Object Class Design, Inheritance and Polymorphism, Software Reuse with Classes, Application Modeling, Simulation with Object Classes, and Business Process Modeling with Objects.

Object-oriented programming (OOP) is a revolutionary concept that changed the rules in computer program development. OOP is organized around “objects” rather than “actions”, data rather than logic. Historically, a program has been viewed as a logical procedure that takes input data, processes it, and produces output data. The programming challenge was seen as how to write the logic, not how to define the data. Object-oriented programming takes the view that, “what we really care about:”, are the objects we want to manipulate rather than the logic required to manipulate them.

The course expands on the material covered in CS105 with the following aims:

- Further cultivation of algorithmic thinking and refinement of existing procedural programming skills
- Familiarization with the Object Oriented programming methodology
- Exposure to Java classes for building graphical interfaces and other extensions

May be taken as a Computer Science GER. Prereq: Computer Science 105

### **Computer Science 107: Digital Media Toolkit**

This course is an introduction to digital multimedia. All media components (digital images/graphics, text, animation, sound and digital video) are introduced and their parameters defined and studied. Software multimedia development tools necessary for the creation or capture of digital media are presented and students acquire hands-on experience with a package for each media category. Hardware essential for the capture/creation of the media is also presented. Multimedia project design parameters are examined and applied to a student capstone project.

The main software used in this course will be Adobe Bridge, Adobe Photoshop, Adobe Premier Pro, Adobe Camera Raw and/or Lightroom. Other software may be used, which will be announced at the beginning of the course.

May be taken as a Computer Science GER.

### **Computer Science 108: Digital Tools for the Humanities**

This course is an introduction to multimedia tools that are essential for the effective and visually appealing communication through a variety of digital applications. Media components, such as digital images, graphics, text elements and digital video are introduced and their parameters defined and studied. Software multimedia development tools, necessary for the creation of digital media, are presented and students acquire hands-on experience with a package for each media category. Emphasis is given on the proper workflow that should be followed in order for the desired result to be achieved in a time efficient, productive and professional manner that meets both the standards and the trends of the industry. Multimedia project design parameters are examined and applied to a student capstone project. The main software used in this module will be Adobe Photoshop/ photopea.com (online editor), Adobe Bridge and Adobe Premier Rush.

May be taken as a Computer Science GER.

### **Computer Science 115: Introduction to computer programming using C++**

This is an introduction to algorithmic thinking and structured programming using the C++ language. Students are introduced to the basic elements of computing hardware, information technology and computer programming fundamentals such as variables, operators, conditionals, loops, functions, arrays and record data structures. The course also covers the use of libraries, data streams and access to operating system resources (file I/O). All topics covered are presented, demonstrated and practiced using C++, inviting students to consider algorithmic solutions to a variety of computing problems. This course advances beyond basic computing skills towards Computer Science, instructing students to develop autonomy as sophisticated computer users, algorithmic thinkers and programmers. **Prereq: Basic computing, numerical and analytical skills.**

### **Computer Science 130: Introduction to electronics and robotics programming**

The primary difference between robots and other types of computing devices is their ability to have a physical effect on their environment, rather than to simply gather, process and communicate data. This is particularly apparent in the case of autonomous mobile robots: they face the challenge of acquiring data from their surroundings using sensors, selecting their own navigation waypoints and dynamically altering their course of action to account for obstacles, power supply restrictions and unexpected events. In this introductory experiential learning course, students will be introduced to the Python programming language, assigned work as part of a team and be challenged to build both the hardware chassis and software algorithms for such autonomous mobile robots. Course participants will be instructed on using the Mindstorms EV3 robotics kit, an Arduino microcontroller board and additional electromechanical resources to solve a series of problems of increasingly challenging problems. The course starts with programming basics and sensor data acquisition, moving through to actuators, robotic navigation, obstacle avoidance, sensor data fusion and culminates in robotic team design challenges. Prerequisite: Basic computing, numerical and analytical skills. Previous exposure to programming code considered an advantage but not necessary.

### **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.

**May be taken as a Computer Science GER. Prereq: Computer Science 101, Math 101**

#### **Computer Science 180: Discrete Structures**

This course introduces the mathematical structures and methods that form the foundation of computer science. The material will be motivated by applications from computer science and emphasize:

- Techniques: binary and modular arithmetic, set notation, methods of counting, evaluating sums, solving recurrences, ...
- Supporting Theory: basics of probability, proof by induction, growth of functions, and analysis techniques and
- General problem solving techniques with many applications to real problems.

The course material is divided into five modules. Each module starts with a motivating application then goes into techniques related to that application and the theory behind those techniques. Each module ends with one or more fairly deep applications based on the material.

These modules are: Computers and Computing: Numbers, Circuits, and Logic; Cryptography: Integers and Modular Arithmetic; Combinatorics: Sets, Counting, and Probability; Algorithmic Analysis: Searching and Sorting; Networks: Graphs and Trees

#### **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

#### **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. The course's placement within the degree scheme is strategic, serving as:

- A gateway to advanced programming concepts and specialized technical courses.
- A practical foundation for students pursuing careers in software development, data science, or technical analysis.
- An essential skill-building component for modern technological literacy.

#### **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. **Prereq: Computer Science 151**

#### **Computer Science 205: Business Data Management**

The purpose of COMP SCI 205 is to introduce the idea of business data management, data modeling, and processing methodologies with the use of standalone design tools and personal databases. It aims at fostering proper data design through the relational methodology and developing all necessary data processing and presentation skills. The aims of this course are to:

- Define the role of Systems Analyst and Database designer.

- Explain System Analysis and interpersonal communication skills that the System Analyst must have
  - Explain Project Management and discuss tools that the system analyst must have
  - Explain the Methodologies that are used for Systems Analysis and Database Design
  - Explain the various tools that certain methodologies use
- Provide students the opportunity to work on the most popular database (Oracle), in a project in order to implement the taught methodologies. **Prereq: Computer Science 105**

#### **Computer Science 206: Web Development**

This is an introductory course for beginning web designers. We will explore some essential concepts related to the creation of effective web sites. In the last portion of the course we will concentrate on client-side scripting using the programming language JavaScript. This course aims at introducing students to the basic web design guidelines, Fundamentals of Hyper Text Markup Language (HTML), and how to use a Simple HTML Editor as well as Web Authoring Tools. Also, one of the main goals of the course will be to understand what scripting languages are and to be able to develop scripts.

**Prereq. Computer Science 101 or 105 or permission by instructor**

#### **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. **Prereq: Computer Science 107 or permission of instructor**

#### **Computer Science 209: 3-D Digital Design I**

The focus of this course is the introduction to the 3D workspace, creation tools, and the basics of 3D design. It includes modeling 3D geometry, creating material textures and lighting, and rendering output to animation and still image formats. 3D animation techniques will also be presented, studied and practiced. The concepts and interrelationships of developing a story and character from premise to production will be presented, studied and implemented by students on a final capstone project. Students will acquire hands-on experience using 3ds max and will build on their 2D skills with the use of Photoshop as an aid in the creation of texture maps. **Prereq: Computer Science 107**

#### **Computer Science 215: Data Structures**

The purpose of CS215 is to introduce students to the main concepts and implementation principles of object-oriented programming and data structures, using Java as the programming language. This course builds on the knowledge and skills acquired in CS105 – Introduction to Programming I - Structured Programming (OU). The course is split in two parts; the first part deals with object-oriented programming using Java, re-enforcing the fundamental concepts learned in CS105. The second part of the course introduces data structures. The data structures examined include arrays, lists, queues, stacks, trees, heaps, hash tables and graphs. Searching, sorting, inserting, deleting and other simple operations on these structures will also be discussed. **Prereq: Computer Science 106 or permission by instructor**

#### **Computer Science 219: Video Game Design**

This course introduces the critical study of computer video games and the professional practice of game design. Through readings, discussions, research, and practical “hands-on” projects, students will better understand the current market for games and simulations and develop the fundamental skills necessary to enter the international computer games industry. Although the commercial video game pipeline will be discussed, the actual production framework for the class will mirror a “Indie” game team “prototype game level” development. Students will be expected to fill multiple roles in the production process, and gain hands-on experience in the collaborative processes of game design, project management, scripting, content creation pipeline, in game animation, and play-testing. **Prereq: Computer Science 107; CS105 recommended or permission by instructor**

#### **Computer Science 230: Introductory Systems Programming**

The course continues from CS105, Structured Programming, aiming to familiarize students with a variety of fundamental

Computer Science and Software Engineering challenges which can be solved by developing appropriate software algorithms. The course furthers algorithmic skills with increased emphasis on systems programming. More elaborate data structures are manipulated and the role of libraries accessing Operating System resources (Disk, I/O) is examined. In this manner the course serves as a bridge between the Programming Fundamentals and the Computing Systems programme threads. The course introduces a high-level language (C++) and proceeds as a follow-up to introductory structured programming, inviting students to consider more elaborate structures and algorithms in order to solve a wide range of tasks. Intricacies of the C/C++ languages are investigated and related to computer architecture (pointers, variable addresses, memory allocation). In addition to algorithmic thinking skills, the course also serves as an introduction to the Computing Systems programme thread, investigating the relationship of high-level languages with the underlying computing system and applying system programming tasks involving I/O for a variety of external devices (user interaction, data storage, microcontrollers). **Prereq. Computer Science 105 or permission by instructor**

#### **Computer Science 300: Mobile Applications Development**

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.

**Prereq: Computer Science 106 or permission by instructor**

#### **Computer Science 306: Advanced Web Development**

This course builds upon the skills and knowledge about creating and publishing Web pages and sites taught in CS 206. It also introduces students to advanced web development areas, required for students interested in pursuing a career in web site design. This course aims mainly on client-side scripting using the programming language JavaScript. The objective will be to understand what scripting languages are and to be able to develop scripts. The course will also offer an introduction to jQuery library, Asynchronous JavaScript and XML (AJAX), basically showing the benefits of their use and applying it to certain programming tasks. In the last portion of the course, students will gain practical knowledge about the currently most used web content management environments. By combining lectures with seminar discussions and extensive hands-on experiences the course will introduce the students both to the applied aspects of content management technologies but also to the theoretical issues involved. **Prereq: Computer Science 206**

#### **Computer Science 309: 3-D Digital Design II**

This Course will build on the existing cs209 course and serve as a more in-depth study of 3d digital design in practice and theory. This course will continue development from cs209 topics, and the following intermediate to advanced topics which are beyond the scope of cs209, will be presented, studied and practiced. This includes, Nurbs and Patch surface modeling, advanced Material, Mapping and Lighting techniques and more advanced Rendering methods. Advanced character animation tools will also be covered including Character studio and Max's character animation tools. It will also cover Dynamic simulations using Reactor and introduces max scripting. **Prereq: Computer Science 209**

#### **Computer Science 310: Hardware & Computer Architecture**

This course addresses the structure and function of modern digital computing devices, ranging from fundamental digital design concepts to registers, counters, finite state machines and basic computing elements which constitute modern digital microcontrollers. Students gain the relevant theoretical understanding and have a chance to apply it in practice designing, simulating, troubleshooting and optimizing combinational and sequential logic circuits. The course concludes with a discussion on system level organization and architecture of modern digital devices, as well as a glance into possible future directions

for computation: analogue computation, memristors, neural computation and quantum computing. This course builds on knowledge and skills acquired in CS230 – Introduction to Systems Programming. Upon successful completion of the course students are able to:

- Understand the function and interconnections of fundamental components which constitute modern digital devices (processor, memory, I/O, data storage, operating system).
- Use logic gates as primary building components in hierarchical digital logic designs.
- Analyze combinational logic, map it using digital circuits and optimize using Karnaugh maps.
- Design, simulate, troubleshoot and optimize both combinational and sequential digital circuits.
- Recognize and understand basic Assembly language and Machine Code.

**Prereq: Computer Science 105 and Computer Science 230 or permission by instructor**

### **Computer Science 312: Database Management Systems**

The purpose of the course is to offer a systematic coverage of modern Database Computing theory and technology. Topics include: Relational Algebra, Data Modeling, Database Design, Client-Server Database Management Systems, Interface Design, trends in Database Systems, combination of Object Oriented Modeling and Relational Databases.

**Prereq: Computer Science 205**

### **Computer Science 321: Operating Systems**

This course deepens understanding of how contemporary computing systems are structured and, in particular, supported by an Operating System. It is a culmination course within the Computing Systems programme thread. Operating Systems are the brain of any computing system. They handle the body/DNA (hardware) as well as behavior (usage of system by user). Following rapid to revolutionary technological developments the field of Operating Systems also undergoes tremendous changes, which constantly evolve the conception of an OS and of course the technological challenges involved in its implementation.

The course aims at outlining the role of an OS in a diachronic way while comparing and contrasting design choices spanning the evolution of the field. It aims at defining fundamental needs that a von Neumann machine has from the Operating System in order to be functional, optimal and attractive to the user.

The course explains Operating Systems architecture and examines trade-offs involved in different, evolving systems. It further examines diachronic as well as contemporary issues involved in Operating System design by comparing and contrasting relevant design and algorithmic choices.

The course involves lab work: Communication with the OS at a low level via a Linux shell and programming tasks addressing aspects of Operating System design and implementation. **Prereq: Computer Science 230, Computer Science 310, or permission by the Department**

### **Computer Science 322: Computer Networks I**

This course aims to provide the student with the knowledge of how computer networks are designed, engineered and operated. This includes knowledge of the fundamental algorithms used in the management of both resources and traffic and how these algorithms may interact with application programs.

Instruction includes, but is not limited to network terminology and protocols, network standards, LANs, WANs, OSI models, cabling, cabling tools, routers, router programming, star topology, and IP addressing.

The student will study and design networks, using Ethernet, TCP/IP Addressing Protocol, and dynamic routing.

Particular emphasis is given to the use of decision-making and problem-solving techniques in applying science, mathematics, communication, and social studies concepts to solve networking problems. **Prereq: Computer Science 215**

### **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. **Prereq: Computer Science 312**

### **Computer Science 330: Introduction to Mobile Robotics**

The primary difference between robots and other types of computing devices is their ability to sense and have a physical effect on their environment, rather than to simply gather, process and communicate data like most other computing devices. This is particularly evident in the case of autonomous mobile robots: they face the challenge of sensing data from their surroundings, selecting their own navigation waypoints and dynamically altering their course to account for obstacles, power supply restrictions and unexpected events. In this course theoretical instruction is combined with experiential learning and challenge-driven software development. Students are challenged individually and in teams to build the hardware chassis, electrical harness and software algorithms for their autonomous mobile robots. This course assumes that students possess a basic background in structured programming and is based on an introduction to microcontroller and mobile robotic programming using the C and RobotC languages. The curriculum commences with an introduction to microcontroller programming and sensor data acquisition, proceeds with the use of actuators, basic navigation, obstacle avoidance, sensor data fusion and concludes with several team challenges in robotic design. This course builds on structured programming skills developed in CS105: Introduction to Programming I – Structured Programming. **Prereq: CS 105**

### **Computer Science 333: Computer Networks II**

In the first part of this course, students learn to configure routers and switches and use network management techniques to find and fix network problems. Topics covered include advanced router configuration, LAN switching theory, and VLANs. There is significant emphasis on project-based learning. In the second part of the course, concepts and methods involved in wide area networking (WAN) design and implementation are introduced. Topics include WAN theory and design, WAN technology, PPP, Frame Relay, and ISDN. Numerous topics and issues are covered through the use of threaded case studies. By the end of this course, students complete advanced projects in network design and management. Successful completion of this course prepares students for the Cisco Certified Networking Associate test (CCNA). **Prereq: Computer Science 322**

### **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.

**Prereq: CSC 106 & CSC 192**

### **Computer Science 345: Applied Machine Learning and Deep Neural Networks**

The course explores the vast field of Machine Learning (ML) at the senior level, focusing on its applications and related software implementations. Covers a variety of related ML models but specializes in the subfield of Deep Learning that encompasses the most successful algorithms that are used to train Deep Neural Networks (DNN). The course mostly emphasizes on the practical application of Machine Learning on data that are available for the needs of a specific intelligent task. These tasks belong to diverse domains like Image Recognition, Natural Language Understanding, and Recommender Systems, and during the course students will be handed the appropriate source code examples which implement ML models for the tasks. Understanding the basic theory through examples, allows the formulation of a solution for the given task and consequently the selection of an ML model, which can be a DNN, that will become a software implementation using popular libraries. The correct selection and usage of the related data samples are part of this research and development process. The experimental setup includes a quantitative evaluation of the solution performance using the proper metrics. The research methodology concludes by identifying problems of ML through evaluation, designing improvements for the next set of experiments, or

stating open questions for future work. **Prereq: CSC 192 and MATH 220**

### **Computer Science 350: Software Engineering**

After successfully finishing this course students are expected to have in-depth knowledge of all phases of the software engineering lifecycle, i.e. requirements engineering and software design, software design, implementation, verification and validation, quality assessment, software re-engineering, and software reverse engineering methods. In addition to that, students are expected to acquire skills related to communication with the customer, teamwork, time management and global software development. **Prereq: CSC 450 or permission by instructor**

### **Computer Science 360: Introductory Data Science/MSDS 650: Data Analytics**

This course is an introduction to data science using Python. Students learn how to process, clean and manipulate data in a variety of formats; visualise multidimensional data; communicate the findings of a data analytics project; apply machine learning algorithms to a variety of datasets; design pipelines for the evaluation of models performance. This course provides the student with the data-science skills and the analytical mindset necessary to meet the needs of business and the real-world decision-making problems. **Prereq: CSC 340, MATH 220 or permission by instructor.**

### **Computer Science 412: Object Oriented Design Patterns**

The course revisits Object Oriented application development methodology at the Senior level, examining its effectiveness in the life cycle of professional applications and software reuse through the adoption of Object Oriented Design Patterns. It presupposes the knowledge gained through the introductory line of the Programming Fundamentals programme thread and follows level 5 modules relating to Data Modeling (CS 312) and Systems Design (CS450) while specializing them within the context of Web Development. Currently CSC 325 (Distributed Systems) is a necessary prerequisite concerning web deployment technologies.

The module mostly emphasizes the employment of OO concepts to Web Development yet it is of general enough nature for a level 6 module as the design patterns examined are applicable to a wide range of technologies and application domains.

**Prereq: Computer Science C215, CS 312, CS325 or permission by the instructor.**

### **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.

**Prereq: Computer Science 321, CS322 or permission by the Instructor.**

### **Computer Science 422: Advanced DBMS**

This course focuses on creating and manipulating databases using SQL and PL/SQL programming languages for Oracle databases. Advanced query capabilities and procedural constructs are described using SQL and PL/SQL. The theoretical foundation for using these capabilities is presented. Performance issues are discussed including indexing, key definitions, and data constraints. The role of application development in ease of use, query optimization, and system performance is discussed. The module aims to teach students to use advanced SQL statements and PL/SQL programming features such as IF statements, Loops, Stored Functions/Procedures, Tables, Cursors, Stored Packages, Stored Triggers and creating and maintaining various databases. SmartDraw and Designer of Oracle are used for ERD's. APEX, SQL Plus and SQL Navigator, SQL Server Management Studio are used as the user interface of the databases. **Prereq: Computer Science 312**

### **Computer Science 443: Capstone Project I (Thesis I) – Computer Science 444: Capstone Project II (Thesis II)**

This is a series of interconnected courses designed to be taken in sequence during the senior year. The courses provide students with a guided yet independent learning experience, allowing them to delve deeper into a substantial problem and apply

the principles, techniques, and methodologies they have acquired throughout the Computer Science curriculum. The main objectives of these courses are to enable students to engage in extensive research and development work, as well as to produce a comprehensive final project report. The course is divided into two distinct phases: the preparatory phase and the implementation phase. During the preparatory phase, students focus on conducting a literature review, evaluating different technologies, and defining the project's specifications. The implementation phase is centered around project development, experimentation, validation, interpretation and discussion of results, as well as documentation and final presentation. The first phase culminates with a comprehensive thesis proposal presented to a faculty panel, while the second phase concludes with the presentation of the student's thesis development work, results, and conclusions. In both cases, students are required to submit a comprehensive document, an academic poster, and deliver a concise slide presentation and demonstration of their work..

#### **Computer Science 450: System Analysis and Design**

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. **Prereq: Computer Science 201 or 205 and Computer Science 312**

#### **Computer Science 499: Advanced Programming Tools**

This course is a complete introduction to .NET and object-oriented programming. This course will help students build a solid foundation in .NET, and show how to apply these skills by using numerous examples. Learning .NET introduces fundamentals like Visual Studio .NET, a tool set for building Windows and Web applications. Students learn about the syntax and structure of the Visual Basic .NET language, including operators, classes and interfaces, structures, arrays, threads, console, passing parameters, sessions, cookies and manipulating all type of strings. Students will also be asked to develop various kinds of applications--including those that work with databases (ADO)--and web services (ASPX) and making use of XML. Finally the course focuses on how to build installable applications using the Setup platform of .NET to create .MSI self-installed applications. **Prereq: Computer Science 412 or Permission of instructor**

### **MATHEMATICS**

#### **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. **May be taken as a Math and Statistics GER.**

#### **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. **May be taken as a Math and Statistics GER.**

#### **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. **May be taken as a Math and Statistics GER. Prereq: Math 101**

#### **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 approximations, and related rates. Topics on integration include the definition of the integral as a limit of sums, anti-differentiation, the fundamental theorem of calculus, and integration by 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. **May be taken as a Math and Statistics GER. Prereq: Math 101 or CSC 180. No Prereq. for Biological Sciences Majors**

#### **Mathematics 121: Calculus II for Science and Engineering**

The purpose of this course is to give a solid foundation in Calculus concepts, tools and techniques for the student entering Science and Engineering fields. This course is a continuation to Calculus I for Science and Engineering where the student mastered: Limits, Differentiation, Anti-Differentiation and Basic Integration skills of 2D functions as well as basic introduction to parameterized curves and motion. This course will cover: Techniques and Applications of Integration. Topics will include: Integration by Parts; Integration by Partial Fractions; Trigonometric Integration; Numerical Integration; Improper Integrals; and Areas, Volumes, Mass/Moments and Work as Integrals; Infinite Series and Introduction to Vectors. Other topics addressed are: Convergence of Sequences and Series of numbers, Power Series representations and Approximations of Functions, 3D Coordinates, Parameterizations, Vectors, Dot and Cross Products, Equations of Lines and Planes. **Prereq: MATH 120**

#### **Mathematics 130: Introduction to Mathematical Reasoning**

The course aims to cover the basics of mathematical reasoning and problem solving to prepare incoming math majors for future courses which require proofs and rigor. Among other topics, the course will focus on: Fundamentals of mathematical arguments (definitions, elements of logic, quantifiers, theorems, proofs, counterexamples, proof by contrapositive and proof by contradiction); Sets and set-theoretic proofs; Counting and Combinatorial proofs; Mathematical Induction, smallest counter-examples; Relations and equivalence relations; Functions and Inverse Functions; Pigeonhole Principle and Inclusion-Exclusion; Cardinality of Sets.

#### **Mathematics 201: Calculus III for Science and Engineering**

The purpose of this course is to give a solid foundation in Calculus concepts, tools and techniques for the student entering Science and Engineering fields. This course is a continuation to Calculus II for Science and Engineering. This course will address: Vectors, the dot and cross products, lines, planes, and surfaces. Vector-valued functions, their derivatives and integrals,

the length and curvature of space curves, and velocity and acceleration along space curves, culminating in Kepler's laws. Functions of two or more variables are studied from verbal, numerical, visual, and algebraic points of view. Contour maps and the Midpoint Rule are used to estimate the average snowfall and average temperature in given regions. Double and triple integrals are used to compute probabilities, surface areas, and (in projects) volumes of hyperspheres and volumes of intersections of three cylinders. Cylindrical and spherical coordinates are introduced in the context of evaluating triple integrals. Vector fields. The similarities among the Fundamental Theorem for line integrals, Green's Theorem, Stokes' Theorem, and the Divergence Theorem are emphasized. The course emphasizes on skill, conceptualization and some modelling. All three are of great importance. Visualization and analysis via the use of technology is used in lecture and could be addressed in Take-Home Assignments. **Prereq: MATH 121**

#### **Mathematics 210: Differential Equations**

The purpose of this course is to give a solid introduction to Ordinary Differential Equations, for students entering Science and Engineering fields. This course is a continuation to Calculus II for Science and Engineering where the student has mastered: integration skills of 2D functions, and some applications in physics.

This course will cover: First-order differential equations (Linear, separable, and exact .Method of integrating factor), Second-order linear equations (Homogeneous, non-homogeneous, the Wronskian, method of variation of parameters). The Laplace transformation (Series solutions. Systems of first-order linear equations).

Other topics addressed are: Integral curves of solutions, via software (MATLAB, Mathematica, or other), Numerical approximations: Euler's method, The Existence and Uniqueness Theorem, Matrix Algebra.

The course emphasizes on skill, conceptualization and some modelling. All three are of great importance. Visualization and analysis via the use of technology is used in lecture and could be addressed in Take-Home Assignments. **Prereq: MATH 121**

#### **Mathematics 215: Differential Equations and Linear Algebra**

The idea of constructing mathematical models to address real-life applications is at the core of the interplay between mathematics and the sciences. In the context of natural sciences, it is often the case that these models involve univariate functions and their derivatives. The course will present an overview of the methods to set-up and solve such equations, called ordinary differential equations (ODE). In parallel, and motivated by systems of linear differential equations, the course will cover the core concepts of Linear Algebra. Following the completion of the course students are expected to have mastered the following topics: First Order Differential Equations; Higher Order Linear Differential Equations; Laplace Transforms; Numerical Methods; Boundary Value and Initial Value Problems; Applications to the Sciences; Systems of Equations and Matrices; Linear Transformations and Eigenvalues.

#### **Mathematics 220: Discrete Mathematics for Computer Science**

Discrete mathematics can be defined as the study of structures consisting of a sequence of individual, separated steps. As such, they contrast with calculus, the latter describing processes which vary continuously or smoothly. If one can claim that the ideas of calculus were fundamental to the industrial revolution, then one can safely assume that the backbone of the science and technology of the computer age is discrete mathematics.

The purpose of this course is for the students to understand and use the aforementioned discrete backbones of computer science. In particular, this class is meant to introduce logic, proofs, sets, relations, functions, counting, and probability, with an emphasis on applications in computer science. Further, this course will cover fundamental mathematical foundations required for conceiving, proving, and analysing algorithms. **Prereq: MATH 101, Computer Science 105 or permission by instructor.**

#### **Mathematics 230: Linear Algebra for Computer Science**

This course is an introduction to the field of Linear Algebra, and focuses on the interplay between geometry, abstract algebra and hands-on programming. The main learning objectives are grouped in the four categories mentioned in the brief description above: students are expected to sharpen their geometric and visualization skills, develop and enhance abstract thinking via theoretical results and proofs, perform explicit computations cultivating and nourishing previously acquired programming

skills, and apply the course's core concepts on a wide variety of modern disciplines related to Computer Science. The course material and topics covered fall under four general categories. Visualization: focuses on the geometric aspects of linear algebra, including, but not restricted to, vectors, spaces of vectors, projections and rigid motions. Abstraction: makes use of the theoretical structures developed over the years, such as vector spaces, matrices, linear transformations, eigenvalues and eigenvectors. Computation: relates the geometry and abstract algebra of the previous two categories to programming via concrete algorithms: Gaussian elimination, determinants, Cramer's method, Gram-Schmidt and matrix multiplication. Applications: refers to connecting Computer Science oriented problems to the tools developed. The course aims to demonstrate applications of Linear Algebra to Optimization, Linear Programming, Graphic Design, Artificial Intelligence and Machine Learning.

## **STATISTICS**

### **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 205: Introductory Statistics**

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.

**May be taken as a Math and Statistics GER. Prereq: Computer Science 101, Math 101**

### **Statistics 206: Biostatistics**

This course is an introduction to descriptive and inferential statistical methods with a focus on biological applications. It covers concepts and techniques concerning exploratory data analysis, frequency distributions, confidence intervals and hypothesis testing, correlation and regression, central tendency and variation, 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 biological applications. Students will master problem solving using both manual computations and the open-source R-programming environment. 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.

**Statistics 210: 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. **Prereq.:** CSC 180 or MATH 120 and CSC 101 or CSC 105.

**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 the application of the techniques learnt. **Prereq.:** CSC 180 or MATH 120 and CSC 101 or CSC 105. **Note:** offered for the Biological Sciences program with relevant application.

**Statistics 305: Statistics II**

Continuing from Statistics 205, this course focuses on Interval Estimation, Hypothesis Testing, Statistical Inference about Means and Proportions with Two Populations, Inferences about Population Variances, Analysis of Variance and Experimental Design, Simple Linear Regression and Correlation, Index Numbers, and Non-parametric Methods. Emphasis is given to problem solving with the use of statistical software. **Prereq:** Stat 205

**Statistics 310: Probability and Statistics**

This is an introduction course to the theory of probability and statistics. Its goal is to develop both mathematical thinking and the tools and concepts necessary for modeling uncertainty and data analysis in real-world problems. This is a Calculus-based course and assumes a working knowledge of single-variable calculus as well as some acquaintance with multivariable calculus (including multiple-integration). It covers concepts and techniques concerning counting and probability principles, random variables, parameter estimation, confidence intervals and hypothesis testing, correlation and regression, central tendency and variation, sampling distribution and statistical inference. Students will be exposed to these topics and will examine how each applies to and can be used in applications. 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 assignments prior to class attendance. **Prerequisite:** Stat 205

**NATURAL AND PHYSICAL SCIENCE****Anatomy and Physiology 115: Integrated Human Anatomy and Physiology I**

This course is the first of a two-part Anatomy & Physiology series. It is designed to provide an understanding of the anatomical structures, function and regulation of integumentary, muscular, skeletal, nervous and endocrine systems. It aims to provide students with knowledge of normal function of the organ systems and thereby provide the information base for interpreting data relating to health and disease. For those in health science fields, this information will serve as the foundation for higher level courses. **Co-requisite:** Human Anatomy & Physiology 115 Lab

**Anatomy and Physiology 116: Integrated Human Anatomy and Physiology II**

This course is the second part of a two-part Anatomy & Physiology series. It is designed to provide an understanding of the anatomical structures, function and regulation of cardiovascular, respiratory, digestive, urinary, and immune systems. It aims to provide students with knowledge of normal function of the organ systems and thereby provide the information base for interpreting data relating to health and disease. For those in health science fields, this information will serve as the foundation for higher level courses. **Prereq:** Anatomy and Physiology 115. **Co-requisite:** Human Anatomy & Physiology 116 Lab

**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. **May be taken as a Natural and Physical Science GER. Co-requisite: Biology 112 Lab**

**Biology 113: General Biology 2**

Upon Completion of this course students should be able to: Describe the theory of evolution, the mechanisms of evolution especially by means of natural selection, the evolution of populations and species, and the evidence in support of evolution; Describe the history of life on Earth and research into the origin of life as well as the major periods of geologic time, the fossil record and the role of changing environmental conditions and mass extinctions in the evolution of life; Recognize a phylogenetic tree and the principles involved in grouping organisms on an evolutionary tree; Distinguish between organisms in the 3 domains of life and provide identifying characteristics of each; Identify groups of protists, the main clades of fungi, major groups and evolution of land plants and key characteristics and evolution of both invertebrate and vertebrate animals; Describe the societal implications of biopharmaceuticals, ocean acidification, climate change, habitat destruction and loss of biodiversity on human health. **Prereq: Biology 112. Co-requisite: Biology 113 Lab**

**Biology 140: Epidemiology and Microbiology Principles and Applications to Public Health**

The first part of this course presents an introduction to epidemiologic definitions, concepts, and methods. Topics include descriptive epidemiology, measurement of disease occurrence and association, measures of risk, and public health surveillance. The second part of the course presents an introduction to basic microbiology with particular emphasis on the biology of bacteria, fungi and viruses in disease, foods and the environment. Topics include structure of bacteria, fungi and viruses, growth requirements, heat inactivation kinetics, and detection methodologies. The course also teaches skills for quantitative problem solving and for understanding epidemiologic concepts in the published literature.

**Biology 201: Foundations of Microbiology**

The goal of this course is to introduce foundational concepts in microbiology and their connection with all the health care fields. The course subjects include the identification of microbes, mechanisms of pathogenicity and microbial disease, structure and response of the host immune system, and prevention against the spread of infectious disease. **Co-requisite: Biology 201 Lab**

**Biology 230: Genetics and Molecular Biology**

This course aims in developing an understanding of fundamental concepts in genetics and molecular biology. Topics include the central dogma in molecular biology, cell division, regulation of gene expression, Mendelian, non-Mendelian and molecular genetics, genes linkage and mapping, mutations, biotechnology, developmental, evolutionary and population genetics.

**Co-requisite: Biology 230 Lab**

**Biology 299: Inquiries in Biological Sciences**

This course is structured to encourage students to think 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.

**Biology/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.

**Biology 320: Biochemistry**

This course will provide an introduction to biomolecules in living matter. The simplicity of the building blocks of macromolecules (amino acids, monosaccharides, fatty acids and purine and pyrimidine bases) will be contrasted with the enormous variety and adaptability that is obtained with the different macromolecules (proteins, carbohydrates, lipids and nucleic acids). The nature of the electronic and molecular structure of macromolecules and the role of non-covalent interactions in an aqueous environment will be highlighted. The unit will be delivered through lectures, formative practicals and related feedback sessions to ensure students fully understand what is expected of them. Short tests (formative assessment) will be used throughout the unit to test students' knowledge and monitor that the right material has been extracted from the lectures.

**Co-requisite: Biology 320 Lab**

**Biology 330: Cell Biology and Histology:**

This is a required module for all Biological Sciences majors. This module is designed to provide an understanding of the fundamental aspects of cell biology and tissue organization. The central object of study is the eukaryotic cell, its intracellular molecules, and the interactions between cells that result in the construction of multicellular organisms. This is a combined lecture and lab module that explores the relationship between structure and function at the cellular and tissue levels. The module will give the students an introduction to the structure and function of cells and cellular structures including the plasma membrane, cytoplasm, intracellular organelles, extracellular matrix, epithelia, and glands. Its overarching aim is to provide students with knowledge of the general organization and functions of the different cellular organelles, the diversity of animal and plant cells, and the cytophysiological characteristics that define the different tissues. **Co-requisite: Biology 330 Lab**

**Biology 350: Microbiology and Infectious Diseases**

This course emphasizes on the microbiology of infectious diseases through analysis of case studies and specific outbreak examples. Upon completion of this course, 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.

**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

**Biology 410: Principles of Epidemiology and Public Health**

This is a required course for all Biological Sciences majors. It is designed to cover basic epidemiology principles, concepts, and procedures useful in the surveillance and investigation of health-related states or events. The course will provide students with a basic understanding of the practices of public health and medical statistics required for preventing and addressing population-based health outcomes. The course explores the basic principles and methods of public health epidemiology. The biological, environmental, sociocultural, and behavioral factors associated with the etiology and distribution of health and disease are also investigated. In this context, topics covered in this course include: basic principles of epidemiology; measures of disease frequency; epidemiologic study designs: experimental and observational; bias; confounding; outbreak investigations. Moreover, the course focuses on providing an understanding of the evolution of public health, so that the students realize the global nature of the discipline, the way historical events and threats have shaped it, and its significance for identifying solutions for public health issues.

**Biology 420: Environmental Health and Toxicology**

This is a required course for all Biological Sciences majors. This course explores the structure and function of ecosystems, the relationship people have with their environment, the risk management choices made, and the resulting associations that affect health and physical well-being for the individual, communities, and susceptible populations. Additionally, it focuses on describing the body's response to drugs, foods, and toxic substances and it examines the biological responses to acute and chronic exposure to environmental, dietary, occupational, and pharmaceutical stress factors. The goal of this course is to provide students with information about the fundamental principles of organization and function of earth's terrestrial and aquatic ecosystems, the effects of human activities on ecosystems functions, and the ways environmental factors impact health outcomes, and the control measures currently used to prevent or minimize the health effects from these negative impacts. Additionally, the course focuses on developing an understanding of how the body's biochemical and physiological mechanisms operate to manage exposure to toxins, poisons, and drugs. **Co-requisite: Biology 420 Lab**

**Biology 430: Biotechnology Principles and Applications**

This course introduces the technology currently used in the analysis and engineering of genes. It also introduces the principles of allied technologies (proteomics, transcriptomics, and cell culture) and exposes students to industry through a site visit to a biotech company and provides an introduction to the use of a model-guided design for experimentation in biotechnology. Upon completion of this course students will be able to understand modern biotechnology methods used to introduce genes in bacteria, plants and animals. Integrate principles of proteomics, transcriptomics and cell culture and understand their utility and applications in industrial biotechnology. Gain practical knowledge of recombinant DNA techniques and basic protein isolation and characterization techniques. Gain an appreciation of the inter-disciplinary nature of modern laboratory-based biological tools and techniques. **Co-requisite: Biology 430 Lab**

**Biology 450: Immunology**

This is a required course for all Biological Sciences majors. The course is designed to introduce students to the study of the molecular and cellular interactions and principles of the immune system. Topics such as immune system organization and development, humoral & cell-mediated immunity, immunodeficiency, and autoimmunity will provide the students with a broad body of interdisciplinary concepts related to homeostasis at the systemic level. Upon completion of this course the student will have a thorough understanding of immunological responses to disease factors. Students will learn about the organization, structure, and function of the immune system, how it can fight infection and why in some cases an immune response can fail. In addition, the course focuses on describing the type of immune responses activated by different kinds of factors, and how infectious agents can overcome the natural immune response and cause disease.

**Biology 493: Thesis I**

This course is the first half of a year-long capstone project, concluding the students' four-year learning experience in the Biological Sciences program. It is designed to foster research, autonomy and synthesis of concepts and skills acquired in all other courses. The first half of the capstone project (SNCB 493) is devoted to research/analysis and design, while the second semester counterpart (SNCB 494) places emphasis on implementation, experimental validation, thesis writing and final project presentation. This course will provide students with an opportunity to work in a guided but increasingly independent fashion, to explore a particular problem in depth, to make practical use of principles, techniques and methodologies acquired elsewhere in the course. To challenge students to form a scientific thesis, carry out a sustained piece of individual work to prove or disprove it, and to present their project work in a dissertation. To enhance communication skills, both oral and written.

**Biology 494: Thesis II**

The module is the second half of a year-long capstone project, concluding the students' four-year learning experience in the Biological Sciences program. It is designed to foster research, autonomy, and synthesis of concepts and skills acquired in all other modules. The first half of the capstone project (SNCB 493) is devoted to research/analysis and design, while the second-semester counterpart (SNCB 494) places emphasis on implementation, experimental validation, thesis writing, and final project presentation.

**Chemistry 117: General Chemistry for the Biological Sciences**

This course is designed to introduce biology students to the fundamental principles of chemistry. Topics to be covered include atomic structure, chemical equations, the periodic table, chemical bonding and intermolecular interactions, thermochemistry, reaction spontaneity, reaction rates, chemical equilibria, acid base chemistry and reactions in aqueous systems. Emphasis will be given to applications of chemical principles in biological systems. Students will develop an understanding of: Atomic structure and chemical properties of elements; Chemical reactions and reaction stoichiometry; Nature of chemical bonding and molecular shape; Significance of intermolecular forces; Thermodynamics of chemical reactions; Chemical kinetics, chemical equilibria, reaction rates, Acid base chemistry, and Buffers, acid base equilibria. **Co-requisite: Chemistry 117 Lab**

**Chemistry 215: Organic Chemistry I**

This course is designed to introduce students to the fundamental principles of chemistry of carbon-containing compounds, including three-dimensional structures, chemical properties and methods of structural identification, reactions, and syntheses. Topics to be covered include, stereochemistry, and functional group characteristics of alkanes, alkenes, alkynes, alkyl halides, alcohols, and ethers, with an emphasis on reaction mechanisms and multi-step syntheses. **Co-requisite: Chemistry 215 Lab**

**Chemistry 216: Organic Chemistry II**

This is a required course for all Biology majors. It continues Organic Chemistry I. It is designed to introduce biology students to the basic concepts in organic chemistry in order to better comprehend related subjects such as Biochemistry, Biotechnology and Environmental Health and Toxicology. Elucidate reaction mechanisms using curved arrows for reactions of ethers, conjugated systems, and aromatic compounds. Assign the stereochemistry of more elaborate organic compounds. Explain the mechanisms of reactions of condensations and alpha substitutions of carbonyl compounds. Describe and explain the reactivity of amines and carboxylic acid derivatives toward a selection of reagents. Discuss the use of NMR, IR, and MS in the elucidation of organic structure. Emphasize on applications of chemical principles in biological systems. **Co-requisite: Chemistry 216 Lab**

**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. **May be taken as a Natural and Physical Science GER. Co-requisite: Ecology 110 Lab**

**Nutrition 130: Fundamentals of Human Nutrition**

The course explores basic concepts of the science of nutrition. Topics include description and role of nutrients, their dietary sources and their fate into the human body (digestion, absorption etc.); energy balance and weight control; eating disorders; nutrition at different developmental stages (childhood, pregnancy, lactation, old age); nutrition in the development/ prevention of human diseases. Emphasis will be given in the use of scientific methodology to explain how nutrients and other food constituents contribute to proper growth, development and health. (4 credits). **May be taken as a Natural and Physical Science GER. Co-requisite: Nutrition 130 Lab**

**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. **May be taken as a Natural and Physical Science GER. Co-requisite: Physics 120 Lab**

**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. **Co-requisite: Physics 121 Lab**

**Research 190: Introductory Undergraduate Guided Research**

This course/module is designed to provide undergraduate students with an introduction to research in Biology, Chemistry or Physics. In Research 190, we take a practical look at how one goes about conducting research in Biology, Computer Science, Chemistry, or Physics. Strategies for reading and writing in the sciences, scientific ethics, and experimental design, will be addressed. Students will be expected to demonstrate knowledge related to the area of their research topic, design and perform an experiment or research project, and present their findings.

## OFFSHORE SAILING COURSES

### **Sea Sail 100: Sea Sailing Fundamentals**

This practical course is for those with little or no experience. The syllabus includes basic seamanship, helmsman ship, and sail Trimming and becoming a confident and competent Crew member on board a yacht. The course has both theoretical and practical (On-Board) components; with the latter being the largest part of the course. **(1 credit)**

### **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.



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