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University

Catalog 2025-2026

UNDERGRADUATE PROGRAMS



CATALOG of STUDY
2025/26



BISSELL LIBRARY

ANATOLIA AMERICAN UNIVERSITY STATEMENT OF ACCREDITATION

In the United States

Anatolia American University is a private, not-for-profit university that operates in Greece, with a rich history that goes back to 1886, when it was first established by the Trustees of Anatolia College. The institution is chartered in the State of Massachusetts, recognized by the Massachusetts Board of Higher Education, and accredited by the New England Commission of Higher Education (NECHE).



In Greece

Anatolia American University - U.L.E., was established by the British Open University, in collaboration with the Trustees of Anatolia College. The institution is recognized by the Greek Ministry of Education as a non-state, not-for-profit university, offering degrees equivalent to those of Greek state universities (Ministerial Decree: 104010/Z1/2025, Greek Government Gazette: 4679/B/29-8-2025). Its undergraduate programs of study are accredited by the Hellenic Authority of Higher Education (HAHE).



Εθνική Αρχή
Ανώτατης Εκπαίδευσης
Hellenic Authority
for Higher Education



ANATOLIA AMERICAN UNIVERSITY

MISSION & VISION

OUR MISSION

Anatolia University 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 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

Anatolia University 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.

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Fall 2025

September 1 (M)	Degree Seeking Housing Opens
September 12 (F)	Study Abroad Housing Opens
September 15-19 (M-F)	Study Abroad Orientation
September 18-19 (Th-F)	Resit Exams for Spring I, Spring II and Summer Terms
October 4 (Sa)	On-Campus Orientation
October 6 (M)	First Day of Classes
October 10 (F)	Last Day for Course Changes
October 25-28 (Sat-Tu)	Fall Break
October 31 (F)	Last Day to Withdraw from a Course
November 17 (M)	Polytechnic Day - No classes
December 5 (F)	Last day of classes
December 8-16 (M-Tu)	Final Exams for all courses
December 17 (W)	Study Abroad Housing Closes

Spring I 2026

January 5 (M)	Study Abroad Housing Opens
January 8-9 (Th-F)	New Student Orientation/Study Abroad Orientation/Registration
January 12 (M)	First Day of Classes
January 16 (F)	Last Day for Course Changes
February 2-5 (M-Th)	OU Exam Board (tentative)
February 12-13 (Th-F)	Fall Resit Exams, No Classes
February 20 (F)	Last Day to Withdraw from a Course
February 23 (M)	Shrove Monday (Kathara Deftera), No Classes
March 25 (W)	Independence Day, No Classes
March 27 (F)	Last Day of Classes
March 30-April 3 (M-F)	Final Exams for all courses
April 5 (Su)	Study Abroad Housing Closes

Spring II 2026

April 17 (F)	Study Abroad Housing Opens
April 20 (M)	First Day of Classes
April 24 (F)	Last Day for Course Changes
May 1 (F)	May Day, No Classes
June 1 (M)	Day of the Holy Ghost, No Classes
June 5 (F)	Last Day of Classes
June 8-9 (M-Tu)	Final Exams for all courses
June 10 (W)	Study Abroad Housing Closes

Summer 2026

June 10 (W)	Study Abroad Housing Opens
June 12 (F)	Study Abroad Orientation
June 15 (M)	First Day of Classes
June 15 (Tu)	Last Day for Course Changes
June 17 (W) - Tentative	Commencement
June 26 (F)	Last Day to Withdraw from a Course
June 29 - July 2 (M-Th)	OU Exam Board (tentative)
July 13 (M)	Last Day of Classes
July 14 (Tu)	Reading Day
July 15 (W)	Final Examinations
July 17 (F)	Study Abroad Housing Closes
July 31 (F)	Degree Seeking Housing Closes



ANATOLIA AMERICAN UNIVERSITY

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
Constantinidis Hall, Ground Floor, 2310-398382; antiv@act.edu

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
Bissell Library, First Floor, 2310 398 377; evadeka@act.edu

Admissions Officer, Ms. Eleni Foridou
Bissell Library, First Floor, 2310 398 239; eforidou@act.edu

INTERNATIONAL PROGRAMS & STUDENT SERVICES

Director of International Programs & Student Services, Ms. Heather Funk Theodoridi
Stavros Constantinidis Hall, First Floor, 2310 398 215; heather@act.edu

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

Anatolia Students Studying in the US or Europe

Anatolia American University 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, students may spend a semester, usually in their second or third year of study, at a university in the US or Europe, and upon return to Anatolia University receive full transfer credit for all courses successfully completed while abroad. Agreements with partner schools allow Anatolia University students to enroll at collaborating institutions for a semester while continuing to pay Anatolia 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 Student Handbook. Following is a synopsis of the financial aid policy and the eligibility criteria applicable for interested students.

Scholarships at Anatolia American University

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. Anatolia American University recognizes top students for outstanding academic achievement and helps them build a better future.

Anatolia University 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, Anatolia 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. Anatolia has developed a well-established program of financial aid to assist students in their quest for university education. This program ensures that no student should be deprived from attending Anatolia University because of financial strains.

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

FINANCIAL AID AWARDS AT ANATOLIA AMERICAN UNIVERSITY

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 Anatolia University budget limitations. Financial aid is a percentage reduction in the 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 their 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 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 the Anatolia American University 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 may apply for a financial aid scholarship. Anatolia American University 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. 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. 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://www.facebook.com/bisselllibrary)) and Instagram (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.

DEGREE REQUIREMENTS

In order to successfully complete all requirements for graduation from the Trustees of Anatolia College-Anatolia American University (AAU), students must fulfill or have:

1. A minimum of forty (40) courses (240 ECTS), including:
 - a. Eight (8) credit-bearing enhancement courses

All undergraduate programs include eight (8) credit-bearing enhancement courses which students can take in the first two years of their study. The courses listed below satisfy this requirement and, in some cases, may also be used to satisfy requirements for certain majors.

English 102: Composition II

English 204: Business/Professional Communication

Computer Science 101: Digital Literacy

Computer Science 192: Object Oriented Programming with Python

History 120: The Modern World

Mathematics 100: Mathematics for Decision Making

Mathematics 101: Elements of Finite Mathematics

Mathematics 120: Calculus I for Science and Engineering

Philosophy 101: Introduction to Philosophy and Critical Reasoning

Politics 101: Contemporary Politics

Psychology 101: Introduction to Psychology

- b. Eight (8) non-credit-bearing enhancement courses, including free electives.

All requirements in the students' declared major are specified under each program of study.

Students are subject to all AAU academic policies and regulations included in the AAU Student Handbook.



A black and white photograph of a large, multi-story brick building, likely a university or institutional structure. The building features a prominent entrance with a large glass door and a series of windows above it. The foreground is dominated by well-manicured landscaping, including several large, rounded topiary bushes and a paved walkway. The overall scene is bright and clear, suggesting a sunny day. The text "ACADEMIC DIVISIONS & AREAS" is overlaid in white, serif font across the middle of the image.

ACADEMIC DIVISIONS & AREAS

SCHOOL of BUSINESS STUDIES

Dr. Rotsios Konstantinos, Professor

Coordinator, Business Programs (Business) (Reg)

Post-Doctoral Researcher, Democritus University of Thrace, PhD in Business Administration, MBA, University of Macedonia, MSc, BSc in Applied Economics, University of Minnesota

Tel.: +30 2310 398344

Email: krotsios@act.edu

Mr. Anastasiou Anestis, Assistant Professor

Coordinator, Tourism & Hospitality (Reg)

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

FACULTY

Dr. Giannopoulou Zoe (Adj)

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. Hourvoulides

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

Dr. Krassas Ioannis, Associate Professor

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

Dr. Monastiridis Prodromos (Adj)

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 (Adj)

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

Dr. Tsihla Eirini, Associate Professor

PhD in Marketing, Aristotle University of Thessaloniki, MSc in Marketing, University of Sterling, UK, BSc in Economics Aristotle University of Thessaloniki, Greece.





Academic Programs

The School of Business offers the **Bachelor of Science in Business Administration**.

BSc in Business Administration

The undergraduate program in Business Administration includes four (4) concentrations:

- 1) Entrepreneurial Management
- 2) International Business and Finance
- 3) Tourism and
- 4) Marketing

Students can declare their concentration in their second year of studies. The program is characterized by a strong foundation in the fundamentals of Business Administration with courses in management, finance, entrepreneurship, tourism management and marketing. Students receive hands-on training in all of the above areas through extensive laboratory activities in all courses.

LEARNING OUTCOMES

The program aims to:

- Develop students understanding, knowledge, skills, abilities, competencies, values and where possible experience relevant to the field of Business Studies.
- Encourage students' intellectual curiosity and broaden their knowledge horizons.
- Enable students to respond to international developments while ensuring their impact on the business community in Greece and SE Europe.
- Provide education linked to a range of career opportunities in the Business sector through a program that combines both theory and practical application of skills.
- Develop the intellectual capacity of students and enhance their research skills and entrepreneurship, enabling them to continue their academic studies or to be employed in appropriate positions in the field of their choice.
- Enable students to understand the theories, policies and practices of the business world.
- Equip students with the knowledge and skills needed to become productive citizens.

DEGREE REQUIREMENTS

The minimum duration of study leading to the award of the undergraduate degree in Business Administration is set at four (4) years, which includes the time required for the preparation and evaluation of the undergraduate thesis. The curriculum consists of four (4) course levels: Enhancement (credit bearing), Level 4, Level 5, and Level 6. Each level includes eight (8) courses. To obtain the degree, students are required to complete 40 courses, of which 32 carry credit units (240 ECTS). The program also includes eight (8) Enhancement Courses without credit units, including one (1) free elective. In the last three (3) terms, students may participate in the Practicum course (Practicum 300). The undergraduate thesis is carried out in the final year of study.



Concentration in Entrepreneurial Management

MAJOR REQUIREMENTS

Enhancement courses (credit bearing)

- Mathematics 101 Finite Mathematics
- English 102 Composition II
- Computer Science 101 Introduction to Computing
- English 204 Business/Professional Communication
- Philosophy 101 Introduction to Philosophy and Critical Reasoning
- History 120 The modern world
- Politics 101 Contemporary Politics
- Psychology 101 Introduction to Psychology

Level 4

- Mathematics 115: Calculus
- Computer Science 151: Quantitative Computing
- Management 101: Introduction to Management
- Accounting 101: Financial Accounting
- Economics 101: Introductory Macroeconomics
- Accounting 102: Managerial Accounting
- Marketing 101: Introduction to Marketing
- Economics 102: Introductory Microeconomics

Level 5

- Management 201: Organizational Behavior
- Finance 201: Financial Management
- Business 241: International Business Law
- Computer Science 201: Business Computing
- Research 299: Research Methods
- Finance 202: Entrepreneurial Corporate Finance
- Management 219: Entrepreneurial International Business
- Statistics 205: Statistics I

Level 6

- Management 310: Human Resources Management
- Management 322: Business Strategy I
- Management 312: Operations Management
- Marketing 330: Consumer Behavior
- Management 323: Business Strategy II-Capstone Project (Thesis)
- Management 330: Entrepreneurship and Innovation
- Marketing 301: Marketing Strategy & Brand Management
- Management 341: Business in Greece and the EU

Students are required to complete eight (8) Enhancement Courses (non-credit bearing), including one (1) Free Elective Course. Compulsory courses of one concentration can be chosen as Enhancement Courses for the other concentrations.

- English 101 Composition I
- Nutrition 130: Fundamentals of Human Nutrition
- Art 120: Art Appreciation: Principles of Design
- Art 130 Introduction to Photography, from the analog to digital era
- Philosophy 203: Ethics
- Computer Science 306: Advanced Web Development
- Computer Science 312: Database Management Systems
- Computer Science 325: Distributed Applications
- Computer Science 412: Object Oriented Design Patterns
- Computer Science 422: Advanced Database Systems
- Computer Science 450: System Analysis and Design
- Practicum 300: Practicum
- Business 398: Undergraduate Internship in Business
- Business 399: Global Competitiveness Practicum
- Economics 242: Applied Managerial Economics
- Finance 400: Seminar in Finance
- Marketing 202: Services Marketing
- Marketing 212: Sales Management
- Marketing 302: Corporate Social Responsibility

SUGGESTED PROGRAM OF STUDIES

1st Semester

- Management 101
- Economics 101
- Mathematics 101
- English 102
- Enhancement Course #1

2nd Semester

- Economics 102
- Mathematics 115
- Computer Science 101
- Psychology 101
- Enhancement Course #2

3rd Semester

- Accounting 101
- Marketing 101
- English 204
- Philosophy 101
- Enhancement Course #3

4th Semester

- Accounting 102
- Computer Science 151
- History 120
- Politics 101
- Enhancement Course #4

5th Semester

- Management 201
- Computer Science 201
- Finance 201
- Business 241
- Enhancement Course #5

6th Semester

- Statistics 205
- Management 219
- Research 299
- Finance 202
- Enhancement Course #6

7th Semester

- Management 322
- Management 312
- Management 341
- Marketing 330
- Enhancement Course #7

8th Semester

- Marketing 301
- Management 310
- Management 323
- Management 330
- Enhancement Course #8



business studies





WEST HALL

Concentration in International Business Finance

MAJOR REQUIREMENTS

Enhancement courses (credit bearing)

- Mathematics 101 Finite Mathematics
- English 102 Composition II
- Computer Science 101 Introduction to Computing
- English 204 Business/Professional Communication
- Philosophy 101 Introduction to Philosophy and Critical Reasoning
- History 120 The modern world
- Politics 101 Contemporary Politics
- Psychology 101 Introduction to Psychology

Level 4

- Mathematics 115: Calculus
- Computer Science 151: Quantitative Computing
- Management 101: Introduction to Management
- Accounting 101: Financial Accounting
- Economics 101: Introductory Macroeconomics
- Accounting 102: Managerial Accounting
- Marketing 101: Introduction to Marketing
- Economics 102: Introductory Microeconomics

Level 5

- Management 201: Organizational Behavior
- Finance 201: Financial Management
- Business 241: International Business Law
- Computer Science 201: Business Computing
- Research 299: Research Methods
- Finance 202: Entrepreneurial Corporate Finance
- Management 219: Entrepreneurial International Business
- Statistics 205: Statistics I

Level 6

- Management 322: Business Strategy I
- Management 312: Operations Management
- Finance 232: International Finance
- 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-Capstone Project (Thesis)

Students are required to complete eight (8) Enhancement Courses (not credit bearing), including one (1) Free Elective Course. Compulsory courses of one concentration can be chosen as Enhancement Courses for the other concentrations.

- English 101 Composition I
- Nutrition 130: Fundamentals of Human Nutrition
- Art 120: Art Appreciation: Principles of Design
- Art 130 Introduction to Photography, from the analog to digital era
- Philosophy 203: Ethics
- Computer Science 306: Advanced Web Development
- Computer Science 312: Database Management Systems
- Computer Science 325: Distributed Applications
- Computer Science 412: Object Oriented Design Patterns
- Computer Science 422: Advanced Database Systems
- Computer Science 450: System Analysis and Design
- Practicum 300: Practicum
- Business 398: Undergraduate Internship in Business
- Business 399: Global Competitiveness Practicum
- Economics 242: Applied Managerial Economics
- Finance 400: Seminar in Finance
- Marketing 202: Services Marketing
- Marketing 212: Sales Management
- Marketing 302: Corporate Social Responsibility

SUGGESTED PROGRAM OF STUDIES

1st Semester

- Management 101
- Economics 101
- Mathematics 101
- English 102
- Enhancement Course #1

2nd Semester

- Economics 102
- Mathematics 115
- Computer Science 101
- Psychology 101
- Enhancement Course #2

3rd Semester

- Accounting 101
- Marketing 101
- English 204
- Philosophy 101
- Enhancement Course #3

4th Semester

- Accounting 102
- Computer Science 151
- History 120
- Politics 101
- Enhancement Course #4

5th Semester

- Management 201
- Computer Science 201
- Finance 201
- Business 241
- Enhancement Course #5

6th Semester

- Statistics 205
- Management 219
- Research 299
- Finance 202
- Enhancement Course #6

7th Semester

- Management 322
- Management 312
- Management 341
- Finance 232
- Enhancement Course #7

8th Semester

- Finance 220
- Marketing 318
- Management 323
- Economics 332
- Enhancement Course #8

Concentration in Tourism

MAJOR REQUIREMENTS

Enhancement courses (credit bearing)

- Mathematics 101 Finite Mathematics
- English 102 Composition II
- Computer Science 101 Introduction to Computing
- English 204 Business/Professional Communication
- Philosophy 101 Introduction to Philosophy and Critical Reasoning
- History 120 The modern world
- Politics 101 Contemporary Politics
- Psychology 101 Introduction to Psychology

Level 4

- Mathematics 115: Calculus
- Computer Science 151: Quantitative Computing
- Management 101: Introduction to Management
- Accounting 101: Financial Accounting
- Economics 101: Introductory Macroeconomics
- Accounting 102: Managerial Accounting
- Marketing 101: Introduction to Marketing
- Economics 102: Introductory Microeconomics

Level 5

- Management 201: Organizational Behavior
- Finance 201: Financial Management
- Business 241: International Business Law
- Computer Science 201: Business Computing
- Statistics 205: Statistics I
- Management 203: Hospitality Management
- Marketing 201: Tourism Marketing
- Management 202: Destination Management

Level 6

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

Students are required to complete eight (8) Enhancement Courses (not credit bearing), including one (1) Free Elective Course. Compulsory courses of one concentration can be chosen as Enhancement Courses for the other concentrations.

- English 101 Composition I
- Nutrition 130: Fundamentals of Human Nutrition
- Art 120: Art Appreciation: Principles of Design
- Art 130 Introduction to Photography, from the analog to digital era
- Philosophy 203: Ethics
- Computer Science 306: Advanced Web Development
- Computer Science 312: Database Management Systems
- Computer Science 325: Distributed Applications
- Computer Science 412: Object Oriented Design Patterns
- Computer Science 422: Advanced Database Systems
- Computer Science 450: System Analysis and Design
- Practicum 300: Practicum
- Business 398: Undergraduate Internship in Business
- Business 399: Global Competitiveness Practicum
- Economics 242: Applied Managerial Economics
- Finance 400: Seminar in Finance
- Marketing 202: Services Marketing
- Marketing 212: Sales Management
- Marketing 302: Corporate Social Responsibility

SUGGESTED PROGRAM OF STUDIES

1st Semester

- Management 101
- Economics 101
- Mathematics 101
- English 102
- Enhancement Course #1

2nd Semester

- Economics 102
- Mathematics 115
- Computer Science 101
- Psychology 101
- Enhancement Course #2

3rd Semester

- Accounting 101
- Marketing 101
- English 204
- Philosophy 101
- Enhancement Course #3

4th Semester

- Accounting 102
- Computer Science 151
- History 120
- Politics 101
- Enhancement Course #4

5th Semester

- Management 201
- Computer Science 201
- Finance 201
- Business 241
- Enhancement Course #5

6th Semester

- Management 202
- Management 203
- Statistics 205
- Marketing 201
- Enhancement Course #6

7th Semester

- Management 322
- Management 302
- Management 303
- Marketing 303
- Enhancement Course #7

8th Semester

- Management 323
- Management 460
- Management 305
- Marketing 320
- Enhancement Course #8

Concentration in Marketing

MAJOR REQUIREMENTS

Enhancement courses (credit bearing)

- Mathematics 101 Finite Mathematics
- English 102 Composition II
- Computer Science 101 Introduction to Computing
- English 204 Business/Professional Communication
- Philosophy 101 Introduction to Philosophy and Critical Reasoning
- History 120 The modern world
- Politics 101 Contemporary Politics
- Psychology 101 Introduction to Psychology

Level 4

- Mathematics 115: Calculus
- Computer Science 151: Quantitative Computing
- Management 101: Introduction to Management
- Accounting 101: Financial Accounting
- Economics 101: Introductory Macroeconomics
- Accounting 102: Managerial Accounting
- Marketing 101: Introduction to Marketing
- Economics 102: Introductory Microeconomics

Level 5

- Management 201: Organizational Behavior
- Finance 201: Financial Management
- Business 241: International Business Law
- Computer Science 201: Business Computing
- Research 299: Research Methods
- Statistics 205: Statistics I
- Marketing 200: Public Relations
- Marketing 214: Advertising

Level 6

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

Students are required to complete eight (8) Enhancement Courses (not credit bearing), including one (1) Free Elective Course. Compulsory courses of one concentration can be chosen as Enhancement Courses for the other concentrations.

- English 101 Composition I
- Nutrition 130: Fundamentals of Human Nutrition
- Art 120: Art Appreciation: Principles of Design
- Art 130 Introduction to Photography, from the analog to digital era
- Philosophy 203: Ethics
- Computer Science 306: Advanced Web Development
- Computer Science 312: Database Management Systems
- Computer Science 325: Distributed Applications
- Computer Science 412: Object Oriented Design Patterns
- Computer Science 422: Advanced Database Systems
- Computer Science 450: System Analysis and Design
- Practicum 300: Practicum
- Business 398: Undergraduate Internship in Business
- Business 399: Global Competitiveness Practicum
- Economics 242: Applied Managerial Economics
- Finance 400: Seminar in Finance
- Marketing 202: Services Marketing
- Marketing 212: Sales Management
- Marketing 302: Corporate Social Responsibility

SUGGESTED PROGRAM OF STUDIES

1st Semester

- Management 101
- Economics 101
- Mathematics 101
- English 102
- Enhancement Course #1

2nd Semester

- Economics 102
- Mathematics 115
- Computer Science 101
- Psychology 101
- Enhancement Course #2

3rd Semester

- Accounting 101
- Marketing 101
- English 204
- Philosophy 101
- Enhancement Course #3

4th Semester

- Accounting 102
- Computer Science 151
- History 120
- Politics 101
- Enhancement Course #4

5th Semester

- Management 201
- Marketing 200
- Finance 201
- Business 241
- Enhancement Course #5

6th Semester

- Research 299
- Marketing 214
- Computer Science 201
- Statistics 205
- Enhancement Course #6

7th Semester

- Management 322
- Management 312
- Marketing 324
- Marketing 330
- Enhancement Course #7

8th Semester

- Management 323
- Marketing 318
- Marketing 320
- Marketing 301
- Enhancement Course #8

Course Descriptions

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 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 decision-making responsibilities. Topics include management accounting vs. financial accounting, classification and behavior of costs, CVP analysis, segmented reporting, standard costing and responsibility accounting. Prerequisite: Accounting 101, Management 101

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. Prerequisite: Management 101

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. Prerequisite: Economics 101 and 102

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. Prerequisite: 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. Prerequisite: Finance 201

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. Prerequisite: 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. Prerequisite: Finance 202, Statistics 205

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. Prerequisite: Management 101

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. Prerequisite: Economics 101, Management 101

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, labor relations, safety, health and wellness, social and ethical issues. Prerequisite: Management 101

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. Prerequisite: Finance 202, Management 312, Marketing 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. Prerequisite: Management 101, Economics 102

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. Prerequisite: 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. Prerequisite: 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. Prerequisite: Economics 101, 102 and 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 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.

Management 305: HR in Hotel & Tourism

Management of Human Resources is probably one of the single most important issues in everyday tourism operations. Tourism is a service industry and it is heavily dependent upon human labor and the quality and quantity of it greatly influence the final result. This course initially introduces the participants into HR management meaning and definition, as well as its significance, functions and objectives. Emphasis is given on ethical issues, human resource development, the scope and range of an HR manager, performance appraisal methods and purpose, the strategic HR management and environment, management development and techniques, motivation in the hospitality industry, communication and e-communication, and leadership. In addition, participants will be given insights of modern developments in HRM, known as e-HRM, including e-HR planning, e-recruitment, e-selection, e-performance management, e-training and development, e-information and audit.

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 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. 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 OTA's; How to perform market segmentation; Strategies for forecasting and budgeting advantage; Optimization of your pricing policy; Introduction to Yield & Revenue Management.

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. Prerequisite: Management 101, Fin 201, Accounting 102

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. Prerequisite: 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 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. Prerequisite: Marketing 101

Marketing 301: Corporate Marketing Strategy

An advanced marketing course that offers in-depth examination and analysis of the basic marketing principles gained in Marketing 101: Introduction to marketing. Students are taught what is being confronted in a marketing department and what the alternative procedures for carrying out various marketing projects are. A considerable effort is made to provide students with the elements of marketing thinking in structuring marketing strategies for various corporations. Supporting students' ability to think, express themselves, write, speak and argue in marketing terms also constitutes one of the main course objectives. Finally,

students are prepared to work in the competitive and dynamic field of marketing and to become professionals with a global perspective. Case analysis and class discussions of current issues are among the important educational and learning tools used. Prerequisite: Marketing 101, Economics 102

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, undergraduate business programs 65 undergraduate business programs 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. Prerequisite: 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. Prerequisite: 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”. Prerequisite: Marketing 101

Marketing 330: Consumer Behavior

An analysis of consumer behavior, this course 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 course 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 course will demonstrate in various ways how and why the analysis of company behavior is critical to the field of marketing. Prerequisite: Marketing 101

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. Prerequisite: Management 101, Marketing 101, Economics 101 and 102

SCHOOL of HUMANITIES & SOCIAL SCIENCES

CHAIR

Dr. Maria Kyriakidou, Professor

(Political Science and International Relations) BA, MA History and Archeology, Aristotle University of Thessaloniki; MA Anthropology, George Washington University; PhD History, King's College London

Tel: +30 2310-398233

Email: markyria@act.edu

COORDINATOR, ENGLISH AND NEW MEDIA

Dr. Filio Chasioti, Assistant Professor (English Language and Literature)

BA in English Language and Literature, Aristotle University of Thessaloniki; MPhil in Applied Linguistics, Trinity College, Dublin; PhD in Contemporary North American Fiction and Corpus Linguistics, Aristotle University of Thessaloniki

Stavros Constantinidis Hall, First Floor, Office 2 Tel.: +30 2310 398229

Email: fchasiot@act.edu

COORDINATOR, PSYCHOLOGY

Dr. Christina Chatzidimitriou, Assistant Professor (Psychology)

BSc Psychology, Aristotle University of Thessaloniki; MSc Social and Clinical Psychology, Aristotle University of Thessaloniki; MSc in Child and Adolescent Psychiatry, University Rene-Descartes; PhD in child psychiatry, Department of Medicine, Aristotle University of Thessaloniki.

Stavros Constantinidis Hall, First Floor, Office 3, Tel.: +30 2310 398450

Email: chatzid@act.edu

FACULTY

Dr. Christos Aliprantis, Associate Professor, (Political Science and International Relations)

BA History, University of Athens; MA History, University of Vienna; MA Comparative History, Central European University; Ph.D. History, University of Cambridge

Dr. Emily Bakola, Adjunct Professor (English) (Adj)

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

Dr. Anastasia Chalkia, Assistant Professor (Psychology)

BA Psychology, Aristotle University of Thessaloniki; MSc Clinical Psychology, Leiden University; Ph.D. Psychology, KU Leuven (Reg)

Dr. Joseph Michael Gratale, Professor (Political Science and International Relations)

BA History, William Paterson College; MA Social Sciences/Modern History, Montclair State University; PhD American Literature and Culture/American Studies, University of Thessaloniki

Dr. Ian Kehoe, Associate Professor (Media and Communication)

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.

Dr. Pavlos Koktsidis, Associate Professor, (Political Science and International Relations),

BA Politics and International Relations, The University of Lancaster; MA Comparative Ethnic Conflict, Queen's University of Belfast; PhD Security and Conflict Analysis, Queen's University of Belfast

Dr. Eva Malinaki, Assistant Professor (Journalism and Media)

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

Dr. Tina Mavrikos, Associate Professor (Political Science and International Relations)

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

Dr. Kristi Poppi, Assistant Professor (Psychology)

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

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



Academic Programs

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

- **Bachelor of Arts in English, Concentrations in Language & Literature and Communication & New Media**
- **Bachelor of Arts in Political Science and International Relations**
- **Bachelor of Science in Psychology**



BA 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.

LEARNING OUTCOMES

The program aims to:

- Provide students with vital knowledge in the subject areas of literature, media and communication, language and culture, with particular emphasis on interdisciplinary connections and perspectives;
- Develop students' conceptual, analytical, critical, and creative skills for academic and professional purposes;
- Help students become more astute readers, critical thinkers, and effective communicators;
- Enhance students' adaptability to change and their ability for life-long learning and self-development;
- Challenge students to operate efficiently and innovatively in dynamic multicultural academic and working environments;
- Cultivate confidence, open-mindedness, collaborative ethos and a commitment to collective and individual progress;
- Prepare students for postgraduate studies and professional settings

DEGREE REQUIREMENTS

The minimum duration of study at AAU leading to the award of the Undergraduate Diploma is set at four (4) years, which includes the time required for the preparation and evaluation of the undergraduate thesis. The English curriculum consists of four (4) course levels: Enhancement (credit bearing), Level 4, Level 5, and Level 6. Each level includes eight (8) courses. To obtain the degree, students are required to complete 40 courses, of which 32 carry credit units (240 ECTS). The program also includes eight (8) Enhancement Courses without credit units, including three (3) Free Elective courses. During the final three (3) academic terms, students may participate in the Internship Course (PRAC 300). The undergraduate thesis is completed during the final year of study.

Concentration in Language and Literature

MAJOR REQUIREMENTS

Enhancement courses (credit bearing)

- Mathematics 100 Mathematics for Decision Making
- Computer Science 101 Digital Literacy
- English 102 Composition Writing II
- English 204 Business/Professional Communication
- Philosophy 101 Introduction to Philosophy and Critical Reasoning
- Politics 101 Contemporary Politics
- Psychology 101 Introduction to Psychology
- History 120 The modern world

Level 4

- English 120: Introduction to Literature
- English 210: Creative Writing
- English 224: Post World War II British and American Drama
- English 273: Introduction to Linguistics
- English 235: Introduction to Literary Theories and Criticism
- English 299: Teaching Approaches and Methods Past and Present
- English 250: Advanced Writing and Professional Communication
- Major elective level 4 (one of the following is required)
 - o English 221: Short Fiction
 - o English 275: Sociolinguistics: Introduction to Language and Society
 - o English 220: Introduction to Twentieth Century Poetry and Drama
 - o Comm 127: Communication, Culture and Society
 - o His 201: Women in Modern Times
 - o Soc Sc 210: Introduction to Global Studies and Human Geographies
 - o Comm 215: Foundations of Contemporary Media
 - o Comm 219: Introduction to Film Studies
 - o Comm 270: Digital Content and Storytelling

Level 5

- English 268: Women and Literature
- English 274: Applied Linguistics in Theory and Practice
- English 230: British Literature and Culture
- Eng/Hum 246: American Literature and Culture
- Comm 327: Research Methods and Practice
- English 325: Pedagogical Foundations in Second Language Acquisition
- Major electives level 5 (two of the following are required)
 - o CS 206: Web Development
 - o English 292: Literature, Art and Culture in language education
 - o English 284: Literature through Performance
 - o English 350: Semiotics and Discourse Analysis: Writing for Social Change
 - o Hum 221: History on Film/Film on History
 - o Comm 217: Media in Transition
 - o CS 206: Web Development
 - o CS 306: Advanced Web Development
 - o Comm 315: Intercultural Understanding and Communication
 - o Comm 233: Introduction to Journalism
 - o Or one of the marketing electives:
 - o Marketing 200 Public Relations
 - o Marketing 214 Advertising
 - o Soc sc 215 Studies in Media and Contemporary Society

Level 6

- English 259: Postcolonial Literature
- English 320: The Other in Literature and Media
- English 340: Comparative Literature
- English 380: The Business of Literature
- English 390 Senior Thesis I
- English 395 Senior Thesis II
- Major electives level 6 (two of the following are required)
 - o English 370: Literature and Film
 - o English 310: Design and Evaluation of Teaching and Assessment Materials
 - o Mkt 324: E-Marketing
 - o CS 219: Video Game Design with Unity and 3ds Max
 - o Practicum 300
 - o Comm 317: Communicating Through New Media
 - o Comm 327: Media Theory
 - o Comm 345: Media Ethics in the digital age

Students are required to attend eight (8) Enhancement Courses (not credit bearing), including three (3) Free Elective Courses. This list includes (but is not limited to) the following courses:

- English 101 Composition I
- Nutrition 130 Fundamentals of Human Nutrition
- Economics 101 Introductory Macroeconomics
- Anthropology 101 Introduction to Anthropology
- Philosophy 203 Ethics
- Sociology 101 Contemporary Society
- Ecology 110 Ecological Principles
- Computer Science 108 Digital Tools for the Humanities

Any course offered at the Anatolia American University catalogue can be taken as a free elective

SUGGESTED PROGRAM OF STUDIES

1st Semester

- English 120
- English 273
- Philosophy 101
- English 102
- Enhancement course #1

2nd Semester

- Politics 101
- English 210
- English 224
- Computer Science 101
- Enhancement course #2

3rd Semester

- English 235
- English 250
- English 204
- Psychology 101
- Enhancement course #3

4th Semester

- Mathematics 100
- History 120
- English 299
- Major Elective level 4
- Enhancement course #4

5th Semester

- Communication 327
- English 325
- English 268
- Major Elective level 5
- Enhancement course #5

6th Semester

- English 230
- English 274
- English/Humanities 246
- Major Elective level 5
- Enhancement course #6

7th Semester

- English 390
- English 380
- English 340
- English 259
- Enhancement course #7

8th Semester

- English 320
- English 395
- Major Elective level 6
- Major Elective level 6
- Enhancement course #8

Concentration in Communication and New Media

MAJOR REQUIREMENTS

Enhancement courses (credit bearing)

- Mathematics 100 Mathematics for Decision Making
- Computer Science 101 Digital Literacy
- English 102 Composition Writing II
- English 204 Business/Professional Communication
- Philosophy 101 Introduction to Philosophy and Critical Reasoning
- Politics 101 Contemporary Politics
- Psychology 101 Introduction to Psychology
- History 120 The modern world

Level 4

- English 120: Introduction to Literature
- English 224: Post World War II British and American Drama
- English 250: Advanced Writing and Professional Communication
- Comm 215: Foundations of Contemporary Media
- Comm 219: Introduction to Film Studies
- Comm 270: Digital Content and Storytelling
- Major electives level 4 (two of the following are required)
 - o English 210: Creative Writing
 - o English 221 Short Fiction
 - o English 273: Introduction to Linguistics
 - o English 235: Introduction to Literary Theories and Criticism
 - o English 275: Sociolinguistics: Introduction to Language and Society
 - o English 220: Introduction to Twentieth Century Poetry and Drama
 - o English 299: Teaching Approaches and Methods Past and Present
 - o Comm 127: Communication, Culture and Society
 - o His 201: Women in Modern Times
 - o Soc Sc 210: Introduction to Global Studies and Human Geographies

Level 5

- English 230: British Literature and Culture
- Comm 315: Intercultural Understanding and Communication
- Comm 233: Introduction to Journalism
- Eng/Hum 246: American Literature and Culture
- Comm 327: Research Methods and Practice
- One marketing elective (one of the following is required)
 - o Marketing 200: Public Relations
or Marketing 214: Advertising
or Soc sc 215: Studies in Media and Contemporary Society
- Major electives level 5 (two of the following are required)
 - o CS 206: Web Development
 - o English 292: Literature, Art and Culture in language education
 - o English 284: Literature through Performance
 - o English 350: Semiotics and Discourse Analysis: Writing for Social Change
 - o Hum 221: History on Film/Film on History
 - o Comm 217: Media in Transition
 - o CS 306: Advanced Web Development
 - o English 274: Applied Linguistics in Teaching Theory and Practice
 - o English 268: Women and Literature
 - o English 325: Pedagogical Foundations in Second Language Acquisition

Level 6

- English 320: The Other in Literature and Media
- Comm 227: Media Theory
- Comm 317: Communicating through New Media
- Comm 345: Media Ethics
- English 390 Senior Thesis I
- English 395 Senior Thesis II
- Major electives level 6 (two of the following are required)
 - o English 370: Literature and Film
 - o English 310: Design and Evaluation of Teaching and Assessment Materials
 - o Mkt 324: E-Marketing
 - o CS 219: Video Game Design with Unity and 3ds Max
 - o Marketing 324: E-Marketing
 - o Practicum 300
 - o English 259: Postcolonial Literature English 340: Comparative Literature
 - o English 380: The business of Literature

Students are required to attend eight (8) Enhancement Courses (not credit bearing), including three (3) Free Elective Courses. This list includes (but is not limited to) the following courses:

- English 101 Composition I
- Nutrition 130 Fundamentals of Human Nutrition
- Economics 101 Introductory Macroeconomics
- Anthropology 101 Introduction to Anthropology
- Philosophy 203 Ethics
- Sociology 101 Contemporary Society
- Ecology 110 Ecological Principles
- Computer Science 108 Digital Tools for the Humanities

Any course offered at the AAU catalogue can be taken as a free elective

SUGGESTED PROGRAM OF STUDIES

1st Semester

- English 120
- Communication 215
- Philosophy 101
- English 102
- Enhancement course #1

2nd Semester

- Politics 101
- Communication 270
- English 224
- Computer Science 101
- Enhancement course #2

3rd Semester

- Communication 219
- English 250
- English 204
- Psychology 101
- Enhancement course #3

4th Semester

- Mathematics 100
- History 120
- Major Elective level 4
- Major Elective level 4
- Enhancement course #4

5th Semester

- Communication 327
- Communication 315
- Communication 233
- Major Elective level 5
- Enhancement course #5

6th Semester

- English 230
- English/Humanities 246
- Marketing elective
- Major Elective level 5
- Enhancement course #6

7th Semester

- English 390
- Communication 345
- Communication 227
- Communication 317
- Enhancement course #7

8th Semester

- English 320
- English 395
- Major Elective level 6
- Major Elective level 6
- Enhancement course #8

BA in Political Science & International Relations

The 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. 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.

LEARNING OUTCOMES

The program aims to:

- provide students with vital knowledge in the subject areas of politics, international relations, history, cultural studies with particular emphasis on interdisciplinary connections and perspectives
- develop students' conceptual, cognitive and analytical skills for academic and professional purposes
- assist students in their efforts to become critical thinkers and commit in continuous growth
- prepare students for postgraduate studies and professional settings
- effectively introduce students to efficient ways of operation in multicultural learning, social and working environments
- cultivate a strong public service ethos and a commitment to collective and individual progress

DEGREE REQUIREMENTS

The minimum duration of study at AAU leading to the award of the Undergraduate Diploma is set at four (4) years, which includes the time required for the preparation and evaluation of the undergraduate thesis. The PS&IR curriculum consists of four (4) course levels: Enhancement (credit bearing), Level 4, Level 5, and Level 6. Each level includes eight (8) courses. To obtain the degree, students are required to complete 40 courses, of which 32 carry credit units (240 ECTS). The program also includes eight (8) Enhancement Courses without credit units, including three (3) Free Elective courses. During the final three (3) academic terms, students may participate in the Internship Course (PRAC 300). The undergraduate thesis is completed during the final year of study.



MAJOR REQUIREMENTS

Enhancement courses (credit bearing)

- Mathematics 100 Mathematics for Decision Making
- Computer Science 101 Digital Literacy
- English 102 Composition Writing II
- English 204 Business/Professional Communication
- Philosophy 101 Introduction to Philosophy and Critical Reasoning
- Politics 101 Contemporary Politics
- Psychology 101 Introduction to Psychology
- History 120 The modern world

Level 4

- Politics 201 Introduction to Political Science and International Relations: Theories and Issues
- European Studies 210 Foundations of European Integration
- History 201 Women in Modern Times
- Social Science 210 Introduction to Global Studies and Human Geographies
- Economics 101 Introductory Macroeconomics
- Politics 230 Comparative Politics
- English 250 Advanced Writing and Professional Communication
- Research 210 Research Methods and Analysis

Level 5

- History 221 Modern World History
- Politics 207 Modern Greek Politics and Issues in Greek foreign policy
- Politics 233 International Law and Organizations
- Politics 202 Political Theory
- Politics 306 Contemporary Development Issues
- Major Electives level 5 (three of the following are required)
 - o Humanities 221 Film in History, History in Film
 - o Politics 229 The US Federal Government
 - o Social Science 215 Studies in Media and Contemporary Society
 - o Politics 240 International Migration
 - o Politics 250 Politics and New Technologies
 - o English 350: Advanced Writing for Social Change (cross listed with the English program)
 - o English/Hum 246: American Literature and Culture (cross listed with the English program)
 - o Comm 315: Intercultural Understanding and Communication (cross listed with the English program)

- o Management 307 Negotiation and Conflict Resolution
(cross listed with the Business program)

Level 6

- History 331 Modern Greek History
- Politics 301 War and Human Security in the Modern World
- Politics 350 Senior Thesis I
- Politics 351 Senior Thesis II
- Social Science 349 Contemporary Globalization
- Major Electives level 6 (three of the following are required)
 - o Politics 304 Women, Power, and Politics
 - o Politics 332 Human Rights
 - o Politics 333 Diplomacy
 - o Politics 334 Global Security Challenges
 - o Social Science 323 Race and racisms
 - o Practicum 300
 - o Psychology 330 - Psychology of immigration
(cross listed with the Psychology program)
 - o ENG 320- The Other in Literature and Media
(cross listed with the English program)
 - o Management 308 Leadership Development
(cross listed with the Business program)
 - o Management 460 Contemporary Project Management
(cross listed with the Business program)

Students are required to attend eight (8) Enhancement Courses (not credit bearing), including three (3) Free Elective Courses. This list includes (but is not limited to) the following courses:

- English 101 Composition I
- Nutrition 130 Fundamentals of Human Nutrition
- Music 120 Traditional and Contemporary Greek Music
- Art 120 Art Appreciation: Principles of Design
- Philosophy 203 Ethics
- Sociology 101 Contemporary Society
- Ecology 110 Ecological Principles
- Art 130 Introduction to Photography, from the analog to digital era
- Computer Science 108 Digital Tools for the Humanities

Any course offered at the AAU catalogue can be taken as a free elective

SUGGESTED PROGRAM OF STUDIES

1st Semester

- Social Science 210
- English 250
- Politics 101
- English 102
- Enhancement course #1

2nd Semester

- Politics 201
- History 201
- History 120
- Computer Science 101
- Enhancement course #2

3rd Semester

- Research 210
- European Studies 210
- Mathematics 100
- Psychology 101
- Enhancement course #3

4th Semester

- Economics 101
- Politics 230
- Philosophy 101
- English 204
- Enhancement course #4

5th Semester

- History 221
- Politics 207
- Politics 306
- Politics 202
- Enhancement course #5

6th Semester

- Politics 233 International Law and Organizations
- Major Elective level 5
- Major Elective level 5
- Major Elective level 5
- Enhancement course #6

7th Semester

- Politics 350
- History 331
- Social Science 349
- Politics 301
- Enhancement course #7

8th Semester

- Politics 351 Thesis II
- Major Elective
- Major Elective
- Major Elective
- Enhancement course #8

BSc in Psychology

The B.Sc. Hons in Psychology is designed to be a novel and contemporary program up to date to the academic and professional trends. It is based on prevalent UK and US standards like all other AAU 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 program 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.

LEARNING OUTCOMES

The program aims to:

- Provide students with fundamental knowledge of the key concepts, theories and overarching themes in psychology
- Enhance students' aptitude for independent and cooperative work
- Improve student's ability for self-development
- Develop diverse conceptual, analytical and communication skills for academic and professional purposes
- Increase students' employment prospects in increasingly dynamic and multicultural social and working environments

DEGREE REQUIREMENTS

The minimum duration of study at AAU leading to the award of the Undergraduate Diploma is set at four (4) years, which includes the time required for the preparation and evaluation of the undergraduate thesis. The Psychology curriculum consists of four (4) course levels: Enhancement (credit bearing), Level 4, Level 5, and Level 6. Each level includes eight (8) courses. To obtain the degree, students are required to complete 40 courses, of which 32 carry credit units (240 ECTS). The program also includes eight (8) Enhancement Courses without credit units, including two (2) Free Elective courses. During the final three (3) academic terms, students may participate in the Internship Course (PRAC 300). The undergraduate thesis is completed during the final year of study.

MAJOR REQUIREMENTS

Enhancement courses (credit bearing)

- Mathematics 100 Mathematics for Decision Making
- Computer Science 101 Digital Literacy
- English 102 Composition Writing II
- English 204 Business/Professional Communication
- Philosophy 101 Introduction to Philosophy and Critical Reasoning
- Politics 101 Contemporary Politics
- Psychology 101 Introduction to Psychology
- History 120 The modern world

Level 4

- History 201 Women in Modern Times
- Psychology 120 Developmental Psychology I (Pre-natal and pre-school years)
- Psychology 121 Developmental Psychology II (Child to Adulthood)
- Psychology 130 Cognitive Psychology
- Psychology 150 Psychophysiology of Behavior
- Psychology 204 Social Psychology
- Psychology 211 Historical, Philosophical & Research Foundations of Psychology
- Major elective level 4 (one of the following is required)
 - o Psychology 170-Personal Development and Employability
 - o English 250-Advanced writing and Professional Communication
(cross listed with the English program)

Level 5

- Psychology 202 - Personality Theories
- Psychology 205- Research methods and Statistics
- Psychology 206- Research methods and Qualitative Analysis
- Psychology 218 - Clinical Psychology I: Psychopathology
- Psychology 221 - Neuropsychology
- Psychology 250 – Psychopharmacology
- Major Electives level 5 (two of the following are required)
 - o Psychology 200-Adulthood & Aging
 - o Psychology 215 - Positive Psychology
 - o Psychology 240 - Forensic Psychology
 - o Psychology 255 - Sports Psychology
 - o Management 307-Negotiation & Conflict Resolution
(cross listed with the Business program)

Level 6

- Psychology 305- Counselling and Psychotherapy
- Psychology 350 - Senior Thesis I
- Psychology 351 - Senior Thesis II
- Psychology 400 - Clinical Psychology II: Psychological Assessment
- Major Electives level 6 (four of the following are required)
 - o Practicum 300
 - o Psychology 303 - Educational Psychology: Inclusive & Special Education
 - o Psychology 310 –Organizational psychology
 - o Psychology 320 – Dialectical therapy
 - o Psychology 330 - Psychology of immigration
 - o Psychology 340 - Psychology of addiction
 - o Psychology 360-Advanced Applied Statistics for Psychologists
 - o Psychology 370-Psychology of Trauma
 - o Management 310-Human Resource Management & Growth
(cross listed with the Business program)

Students are required to attend eight (8) Enhancement Courses (not credit bearing), including two (2) Free Elective Courses. This list includes (but is not limited to) the following courses:

- English 101 Composition I
- Nutrition 130 Fundamentals of Human Nutrition
- Biology 112 Principles of Biology
- Music 120 Traditional and Contemporary Greek Music
- Statistics 205 Introductory Statistics
- Art 120 Art Appreciation: Principles of Design
- Philosophy 203 Ethics
- English 120 Introduction to Literature
- Ecology 110 Ecological Principles
- Art 130 Introduction to Photography, from the analog to digital era
- Computer Science 108 Digital Tools for the Humanities

Any course offered at the AAU catalogue can be taken as a free elective

SUGGESTED PROGRAM OF STUDIES

1st Semester

- Psychology 120
- Psychology 204
- Psychology 101
- English 102
- Enhancement course #1

2nd Semester

- Psychology 121
- Psychology 130
- History 120
- Computer Science 101
- Enhancement course #2

3rd Semester

- Psychology 211
- History 201
- Mathematics 100
- Philosophy 101
- Enhancement course #3

4th Semester

- Psychology 150
- Politics 101
- English 204
- Major elective level 4
- Enhancement course #4

5th Semester

- Psychology 202
- Psychology 205
- Major Elective level 5
- Major Elective level 5
- Enhancement course #5

6th Semester

- Psychology 206
- Psychology 218
- Psychology 221
- Psychology 250
- Enhancement course #6

7th Semester

- Psychology 350
- Psychology 305
- Psychology 400
- Major Elective level 6
- Enhancement course #7

8th Semester

- Psychology 351 Thesis II
- Major Elective level 6
- Major Elective level 6
- Major Elective level 6
- Enhancement course #8

Course Descriptions

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.

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.

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

This course is designed to provide students with a comprehensive foundation in 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.

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.

English 102: Composition II

This course builds upon the expository writing skills presented in Eng101. 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.

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.

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.

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.

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.

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.

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 recognize 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.

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.

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.

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.

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 colonization 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.

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.

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.

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.

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.

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.

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-centered 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.

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.

English 300: Image/Text/Culture

This interdisciplinary course examines the images and texts of film, television, art, photography, and advertising (with a strong emphasis on film) and how they come to characterize 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.

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.

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”.

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.

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.

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.

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?

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.

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.

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.

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.

European Studies 210: Foundations of European Integration

This course 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.

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.

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.

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.

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?”

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.

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.

Communication 270: Digital Content and Storytelling

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

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.

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 evolvment of new media.

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 courses. 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.

Communication 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

Politics 233: International Law and Organizations

The aim of this course 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 course 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.

Politics 240 International Migration

The aim of the course is to introduce students to the issues and concerns of international migration, particularly as these have been brought about by globalization. The course 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.

Politics 250: Politics and New Technologies

The course 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.

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.

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.

Politics 306: Contemporary Development Issues

This course 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.

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.

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.

Politics 334: Global Security Challenges

This course 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.

Politics 350: Senior Thesis I

An intensive, two-semester research project guided by one or more AAU faculty. Part One.

Politics 351: Senior Thesis II

An intensive, two-semester research project guided by one or more AAU faculty. Part Two.

Practicum 300 Practicum

The course aims to offer students experiential and service-learning experiences 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, equipping them for the job market.

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.

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.

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.

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.

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 introduce major psychophysiological measures and help students understand what psychophysiologicalists do, how they think about psychology and behavior. It introduces to students 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.

Psychology 170: Personal Development & Employability

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

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.

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.

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 recognize the limits of generalizing social psychological research to all gender/ethnic/cultural/age groups.

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 courses that include introduction to research methods and statistics such as 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, generalizability/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 courses that include introduction to research methods such as Psychology 211 and 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.

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.

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.

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.

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 course 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.

Psychology 250: Psychopharmacology

This is a course which covers the basic principles of psychopharmacology. The course 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.

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.

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.

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.

Psychology 310: Organizational Psychology

Through this course the students will understand in depth the influence and interaction between organizations 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.

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.

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.

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.

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.

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.

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.

Research 210: Research Methods and Analysis

This is 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 course 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.

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.

Social Science 215: Studies in Media and Contemporary Society

This course 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 course will examine the concept of mass society, media power and globalization. Examples and case studies will be taken from American and European sources.

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 an interdisciplinary approach at both the theoretical and applied levels.

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.

SCHOOL of SCIENCE & TECHNOLOGY

INTERIM CHAIR

Dr. Evangelos Chatzistavros, Assistant Professor (Computer Science)

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

Tel: +30 2310 398386

mail: vchatzi@act.edu

COORDINATOR

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

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

Tel: +30 2310 398348

Email: kalamaki@act.edu

FACULTY

Dr. Andreas Anestis, Associate Professor (Biological Sciences)

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. Alexander Astaras, Associate Professor (Computer Science)

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

Dr. Grigoris Baglavas, Associate Professor (Computer Science)

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

Dr. Eleftheria Barlaka, Assistant Professor (Biology)

BSc Biology, Aristotle University of Thessaloniki, Greece; MS in Biology, Aristotle University of Thessaloniki, Greece; PhD in Biology, Aristotle University of 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, Assistant Professor (Mathematics)

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

Dr. Kyriaki Feidaki, Adjunct Professor (Biological Sciences) (Adj)

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. Konstantinos Kanakoglou, Assistant Professor (Physics)

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

Dr. Stamos Karamouzis, Professor (Computer Science)

B.Sc. in Computer Science, Christopher Newport College, USA; M.Sc. in Computer Science, The College of William and Mary, USA; Ph.D. in Computer Science, The College of William and Mary, USA

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

Dr. Kyriaki Mengoudi, Assistant Professor (Computer Science)

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

Dr. Iosif Viktoratos, Assistant Professor (Computer Science)

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.



Academic Programs

The School of Science and Technology offers the following undergraduate programs:

- **Bachelor of Science in Biological Sciences**
- **Bachelor of Science in Business Computing**
- **Bachelor of Science in Computer Science**

BSc in Biological Sciences

The BSc in Biological Sciences curriculum is characterized by a strong foundation in the fundamental principles of biological science, with courses in General Biology, Molecular Biology, Cell Biology, Microbiology, Physiology, Biotechnology, and others. Students receive practical training across all these areas through extensive laboratory activities integrated into each course. The program is complemented by elective courses, allowing students to deepen or broaden their knowledge during their studies. Additionally, all students have the opportunity to conduct independent research and apply their acquired knowledge during their final year through two capstone courses dedicated to undergraduate thesis work.

LEARNING OUTCOMES

The program aims to:

- Provide the knowledge and foundational understanding required for graduates of higher education entering the labor market or academic institutions.
- Equip students with knowledge, skills, and inspiration, enabling them to choose between a professional career at the forefront of innovation or pursuing further studies in Biological Sciences through research.
- Deliver education in Biological Sciences that prepares graduates for careers in industry or postgraduate studies. This education encompasses a wide range of topics across related fields, following a comprehensive and diverse curriculum that fosters both problem-solving skills and a broad understanding of Biological Sciences.
- Develop the cognitive skills necessary for a biologist, including the application of scientific methods in designing and conducting experiments, data analysis, interpretation of results, and effective communication of research findings through scientific writing.
- Instill a professional and entrepreneurial mindset in students and cultivate skills that enable them to develop and fully utilize their knowledge and technical expertise throughout their careers.
- Demonstrate the ability to apply knowledge and skills within the broader context of biological system development, whether through individual efforts or effective participation in international organizations and teams.

DEGREE REQUIREMENTS

The minimum duration of study at AAU leading to the award of the Undergraduate Diploma is set at four (4) years, which includes the time required for the preparation and evaluation of the undergraduate thesis. The Biological Sciences curriculum consists of four (4) course levels: Enhancement (credit bearing), Level 4, Level 5, and Level 6. To obtain the degree, students are required to complete 36 courses, of which 27 carry credit units (240 ECTS). The program also includes nine (9) Enhancement Courses without credit units, including one (1) Free Elective course. During the final three (3) academic terms, students may participate in the Internship Course (PRAC 300). The undergraduate thesis is completed during the final year of study.

MAJOR REQUIREMENTS

Enhancement courses (credit bearing)

- | | |
|------------------------|---|
| • Mathematics 120 | Calculus I for Science and Engineering |
| • Computer Science 101 | Digital Literacy |
| • English 102 | Composition II |
| • English 204 | Business/Professional Communication |
| • Philosophy 101 | Introduction to Philosophy and Critical Reasoning |
| • Politics 101 | Contemporary Politics |
| • Psychology 101 | Introduction to Psychology |
| • History 120 | The modern world |

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 |

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 |

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 |

Students are required to attend nine (9) Enhancement Courses (not credit bearing), including one (1) Free Elective Course. This list includes (but is not limited to) the following courses:

- Anatomy and Physiology 116
- Biology 299
- Biology 400
- Philosophy 310
- Physics 120
- English 101
- Art 130
- Economics 101
- Free Elective
- Integrated Human Anatomy and Physiology II
- Inquiries in the Biological Sciences
- Senior Seminar
- Bio Ethics
- University Physics I, for Science and Engineering
- Composition I
- Introduction to Photography, from the analog to digital era
- Introductory Macroeconomics
- 1 course from any of the courses listed in the catalogue

SUGGESTED PROGRAM OF STUDIES

1st Semester

- Biology 112
- Nutrition 130
- Mathematics 120
- Computer Science 101
- Enhancement course #1

2nd Semester

- Biology 113
- Chemistry 117
- English 102
- Politics 101
- Enhancement course #2

3rd Semester

- Anatomy and Physiology 115
- Biology 201
- History 120
- English 204
- Enhancement course #3

4th Semester

- Statistics 211
- Biology 230
- Chemistry 215
- Psychology 101
- Enhancement course #4

5th Semester

- Biology 330
- Chemistry 216
- Philosophy 101
- Enhancement course #5

6th Semester

- Biology 320
- Biology 350
- Enhancement course #6
- Enhancement course #7

7th Semester

- Biology 410
- Biology 450
- Biology 493
- Enhancement course #8

8th Semester

- Biology 420
- Biology 430
- Biology 494
- Enhancement course #9

BSc in Computer Science

The BSc in Computer Science curriculum is characterized by a strong foundation in the fundamental principles of computer science, with courses in Programming, Databases, Web and Application Development, Computer Networks, Operating Systems and Security, Artificial Intelligence, and more. Students receive hands-on training in all of the above areas through extensive lab-based activities in every course. The program is further enriched by elective courses (either in-depth or enhancement) taken by students throughout their studies. In addition, all students have the opportunity to conduct their own research and apply the knowledge they have acquired during the final year of their studies through the two Undergraduate Thesis courses.

LEARNING OUTCOMES

The program aims to:

To equip students with the knowledge, skills, and inspiration for a career at the forefront of innovation or for further studies and research in computer science.

To provide education in Computer Science aligned with QAA standards, suitable either for a career in industry or for postgraduate studies. This education will cover a broad range of knowledge and understanding across all relevant areas of a rigorous curriculum, and will strengthen problem-solving skills and information literacy.

To develop the cognitive skills required by a computer scientist: the ability to model systems, to perform abstract analysis, and to communicate technical arguments effectively.

To provide the ability to critically evaluate computer systems, their performance, and their specifications, and to demonstrate high-level professional competence across a wide range of technical, legal, and ethical areas.

To instill a professional and entrepreneurial mindset in students and to develop a set of transferable skills that will enable them to advance and apply their knowledge and technical expertise throughout their careers.

To demonstrate the ability to apply knowledge and skills in diverse environments where computer systems are developed, either working independently or contributing effectively as members of international teams.

DEGREE REQUIREMENTS

The minimum duration of study at AAU leading to the award of the Undergraduate Diploma is set at four (4) years, which includes the time required for the preparation and evaluation of the undergraduate thesis. The Computer Science Curriculum consists of four (4) course levels: Enhancement (credit bearing), Level 4, Level 5, and Level 6. Each level includes eight (8) courses. To obtain the degree, students are required to complete 40 courses, of which 32 carry credit units (240 ECTS). The program also includes eight (8) Enhancement Courses without credit units, including four (4) Free Elective courses. During the final three (3) academic terms, students may participate in the Internship Course (PRAC 300). The undergraduate thesis is completed during the final year of study.

MAJOR REQUIREMENTS

Enhancement courses (credit bearing)

- Mathematics 101 Finite Mathematics
- Computer Science 192 Object oriented programming with Python
- English 102 Composition II
- English 204 Business/Professional Communication
- Philosophy 101 Introduction to Philosophy and Critical Reasoning
- Politics 101 Contemporary Politics
- Psychology 101 Introduction to Psychology
- History 120 The modern world

Level 4

- 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 230 Systems Programming
- Mathematics 120 Calculus I for Science and Engineering
- Statistics 210 Statistics with R
- Business Elective (1 of the following is required) *
 - o Accounting 101 Financial Accounting
 - o Economics 101 Introductory Macroeconomics
 - o Marketing 101 Introduction to Marketing

*Courses offered by the School of Business

Level 5

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

Level 6

- Computer Science 321 Operating Systems
- Computer Science 322 Computer Networks I
- Computer Science 325 Distributed Applications
- Computer Science 412 Object Oriented Design Patterns
- Computer Science 421 Computer Systems Security
- Computer Science 443 Capstone Project I (Thesis I)
- Computer Science 444 Capstone Project II (Thesis II)
- Major Elective (1 of the following is required)
 - o Computer Science 219 Video Game Design
 - o Computer Science 330 Introduction to Mobile Robotics Programming
 - o Computer Science 333 Computer Networks II
 - o Computer Science 422 Advanced DBMS
 - o PRACTICUM 300 Practicum

Students are required to attend eight (8) Enhancement Courses (not credit bearing), including four (4) Free Elective Courses. This list includes (but is not limited to) the following courses:

- English 101
- Nutrition 130
- ART 130
- Philosophy 203

Any course offered at the AAU catalogue can be taken as a free elective

SUGGESTED PROGRAM OF STUDIES

1st Semester

- Computer Science 105
- Economics 101
- Mathematics 101
- Philosophy 101
- Enhancement course #1

2nd Semester

- Computer Science 106
- Computer Science 192
- Mathematics 120
- English 102
- Enhancement course #2

3rd Semester

- Computer Science 205
- Computer Science 215
- Politics 101
- English 204
- Enhancement course #3

4th Semester

- Computer Science 230
- Statistics 210
- Psychology 101
- History 120
- Enhancement course #4

5th Semester

- Computer Science 206
- Computer Science 312
- Computer Science 340
- Computer Science 450
- Enhancement course #5

6th Semester

- Computer Science 306
- Computer Science 310
- Computer Science 322
- Mathematics 220
- Enhancement course #6

7th Semester

- Computer Science 300
- Computer Science 325
- Computer Science 412
- Computer Science 433
- Enhancement course #7

8th Semester

- Computer Science 321
- Computer Science 421
- Computer Science 444
- Major Elective
- Enhancement course #8

BSc in Business Computing

The BSc in Business Computing curriculum is characterized by a strong foundation in the fundamental principles of computer science, with courses in Programming, Databases, Web and Application Development, Computer Networks, Operating Systems and Security, Artificial Intelligence, among others. These are combined with courses from the broader field of Business Administration, such as Economics, Accounting, and Management. Students receive hands-on training in all of the above areas through extensive lab-based activities in every course. The program is further enriched by elective courses (for specialization or broadening) that students take during the final two years of study, allowing them to tailor their academic path toward their area of interest—whether that be Informatics or Business Administration. In addition, all students have the opportunity to conduct their own research and apply the knowledge they have acquired during the final year of their studies through the two Undergraduate Thesis courses.

LEARNING OUTCOMES

The program aims to:

- Provide education in Business Computing that prepares students for either a career in industry or postgraduate studies. This education spans a wide range of knowledge and understanding across the relevant curriculum areas, while fostering problem-solving abilities and information literacy.
- Offer employment opportunities in the fields of Business Administration and/or Informatics, by integrating academic theory with practical skill development and exposure to Information Technology.
- Develop knowledge, understanding, and problem-solving skills, along with practical experience where possible, in the area of Business Administration, with a focus on the application of Information Technology.
- Expose students to key areas of Informatics relevant to office and business settings, including office applications, programming, databases, multimedia, networking and the internet, and security.
- Cultivate skills in assessment, evaluation, analysis, design, implementation, and programming for solving business problems using Information Technology.
- Encourage the development of thoughtful and socially aware individuals, through interdisciplinary exposure and engagement.
- Instill lifelong values, professional ethics, and a sense of responsibility in relation to professional practice.

DEGREE REQUIREMENTS

The minimum duration of study at AAU leading to the award of the Undergraduate Diploma is set at four (4) years, which includes the time required for the preparation and evaluation of the undergraduate thesis. The Computer Science Curriculum consists of four (4) course levels: Enhancement (credit bearing), Level 4, Level 5, and Level 6. Each level includes eight (8) courses. To obtain the degree, students are required to complete 40 courses, of which 32 carry credit units (240 ECTS). The program also includes eight (8) Enhancement Courses without credit units, including one (1) Free Elective course. During the final three (3) academic terms, students may participate in the Internship Course (PRAC 300). The undergraduate thesis is completed during the final year of study.

MAJOR REQUIREMENTS

Enhancement courses (credit bearing)

- Mathematics 101 Finite Mathematics
- Computer Science 192 Object oriented programming with Python
- English 102 Composition II
- English 204 Business/Professional Communication
- Philosophy 101 Introduction to Philosophy and Critical Reasoning
- Politics 101 Contemporary Politics
- Psychology 101 Introduction to Psychology
- History 120 The modern world

Level 4

- 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
- Economics 101 Introductory to Macroeconomics*
- Management 101 Introduction to Management*
- Mathematics 115 Business Calculus
- Statistics 210 Statistics with R

Level 5

- Computer Science 206 Web Development
- Computer Science 306 Advanced Web Development
- Computer Science 312 Database Management Systems
- Computer Science 340 Introduction to Artificial Intelligence and Machine Learning
- Computer Science 450 System Analysis and Design
- Finance 201 Financial Management*
- Management 201 Organizational Behavior*
- Research 299 Business Research Methods*

Level 6

- Computer Science 322 Computer Networks I
- Computer Science 325 Distributed Applications
- Computer Science 443 Capstone Project I (Thesis I)
- Computer Science 444 Capstone Project II (Thesis II)
- Management 312 Operations Management

- Major Elective (3 of the following are required)
 - o Computer Science 219 Video Game Design
 - o Computer Science 321 Operating Systems
 - o Computer Science 330 Introduction to Mobile Robotics Programming
 - o Computer Science 333 Computer Networks II
 - o Computer Science 412 Object Oriented Design Patterns
 - o Computer Science 421 Computer Systems Security
 - o Computer Science 422 Advanced DBMS
 - o Practicum 300 Practicum
 - o Economics 332 International Economics*
 - o Finance 220 Investment and Portfolio Management*
 - o Finance 232 International Finance*
 - o Management 302 Revenue Management*
 - o Management 303 Events Management*
 - o Management 305 HR in Hotel and Tourism*
 - o Management 306 Tourism and Real Estate Management*
 - o Management 341 Business in Greece and the E.U.*
 - o Marketing 301 Corporate Marketing Strategy*
 - o Marketing 303 Tourism e-business*
 - o Marketing 318 Global Marketing*
 - o Marketing 320 Marketing Research*
 - o Marketing 324 E-Marketing*
 - o Marketing 330 Consumer Behavior*

*Courses offered by the School of Business

Students are required to attend eight (8) Enhancement Courses (not credit bearing), including one (1) Free Elective Course. This list includes (but is not limited to) the following courses:

- English 101
- Nutrition 130
- Business Administration 241
- Accounting 101
- Accounting 102
- Computer Science 180
- ART 130
- Philosophy 203

Any course offered at the AAU catalogue can be taken as a free elective

SUGGESTED PROGRAM OF STUDIES

1st Semester

- Computer Science 105
- Management 101
- Mathematics 101
- Philosophy 101
- Enhancement course #1

2nd Semester

- Computer Science 106
- Computer Science 192
- Mathematics 115
- English 102
- Enhancement course #2

3rd Semester

- Computer Science 215
- Statistics 210
- Politics 101
- English 204
- Enhancement course #3

4th Semester

- Computer Science 205
- Economics 101
- Psychology 101
- History 120
- Enhancement course #4

5th Semester

- Computer Science 206
- Computer Science 312
- Computer Science 340
- Computer Science 450
- Enhancement course #5

6th Semester

- Computer Science 306
- Finance 201
- Management 201
- Research 299
- Enhancement course #6

7th Semester

- Computer Science 322
- Computer Science 325
- Computer Science 433
- Major Elective #1
- Enhancement course #7

8th Semester

- Computer Science 444
- Management 312
- Major Elective #2
- Major Elective #3
- Enhancement course #8

Course Descriptions

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.

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.

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

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.

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 course will be Adobe Photoshop/ photopea.com (online editor), Adobe Bridge and Adobe Premier Rush.

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.

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.

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, etc.
- 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. Prerequisite: 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. Prerequisite: Computer Science 105

Computer Science 206: Web Development

COMP SCI 206 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. Prerequisite: 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. Prerequisite: 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. Prerequisite: 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. Prerequisite: 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. Prerequisite: 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). Prerequisite: 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. Prerequisite: 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 a 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. Prerequisite: 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. Prerequisite: 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.

Prerequisite: 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. Prerequisite: 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 program 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. Prerequisite: 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. Prerequisite: 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. Prerequisite: 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. Prerequisite: 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). Prerequisite: 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. Prerequisite: 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. Prerequisite: 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. Prerequisite: 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; visualize 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. Prerequisite: 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 program 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 course mostly emphasizes the employment of OO concepts to Web Development yet it is of general enough nature for a level 6 course as the design patterns examined are applicable to a wide range of technologies and application domains. Prerequisite: 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 course 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. Prerequisite: 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 course 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. Prerequisite: 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.

Computer Science 450: System Analysis and Design

The course introduces the waterfall model for system/application development and the formal tools employed in its various stages. The objectives of the course 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. Prerequisite: 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. Prerequisite: 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.

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.

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. Prerequisite: 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. Prerequisite: Math 101 or CSC 180. No prerequisite 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. Prerequisite: 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. Prerequisite: 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. Prerequisite: 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. Prerequisite: 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 course is an introduction to descriptive and inferential statistical methods. This introductory course covers the concepts and techniques concerning exploratory data collection and analysis, basic frequency distributions, correlation, central tendency and variation, basic probability principles, sampling distribution and statistical inference. Students will be exposed to these topics and will examine how each applies to and can be used in real life applications. Students will master problem solving using both manual computations and statistical software. The course will be balanced between classic text-oriented resources and relevant computer software. It intends to help students develop their critical thinking and problem-solving ability. Students are expected to have read attendance. Upon completion of this course, it is the aim and hope of the mathematics faculty that students who work hard and apply themselves will be able to:

- Acquire solid statistical skills necessary to meet the needs of the real-world decision-making problems.
- Effectively communicate the results of a statistical analysis both orally and in writing.
- Gain fundamental statistical knowledge and skills required for a higher-level course in related fields.
- 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. Prerequisite: 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 course 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 visualization, 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. Prerequisite.: CSC 180 or MATH 120 and CSC 101 or CSC 105.

Statistics 211: Introductory Statistics with R

This course 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 visualization, 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. Prerequisite.: 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. Prerequisite: 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 SCIENCES

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. Prerequisite: 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. 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. Prerequisite: 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 course 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 course 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 course for all Biological Sciences majors. This course 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 course that explores the relationship between structure and function at the cellular and tissue levels. The course 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 immuno-logical 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 course 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 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.

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. 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. 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. 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 is designed to provide undergraduate students with an introduction to research in Biology, Chemistry or Physics. In Research 190, we will 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.

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.

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.

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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ACADEMIC OFFICES

Office / Division	Name	Location	Phone No. (+302310 + No.)	e-mail name@act.edu
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Office / Division	Name	Location	Phone No. (+302310 + No.)	e-mail name@act.edu
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Director of Admissions	Ms. Roula Lebetli	Bissell Library, 1F	398239	rleb
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Anatolia American University - U.L.E. (Anatolia University) is the tertiary division of Anatolia, one of the leading not-for-profit educational organizations in Greece. Founded in 1886, Anatolia serves all levels of education, from Pre-K to Master's programs. Anatolia University carries on this long tradition of academic excellence, and offers English-taught undergraduate programs in partnership with The Open University, UK, recognized internationally. Also accredited in the US by the New England Commission of Higher Education (NECHE), Anatolia University is rightfully considered among the premier, internationally-oriented institutions in Southeast Europe, promoting both innovative learning and humanitarian values.

The comprehensive curriculum at Anatolia University offers a variety of programs taught in English which lead to the following Bachelor's degrees:

- BS in Biological Sciences
- BS in Business Administration (with 4 concentrations)
- BS in Business Computing
- BS in Computer Science
- BA in English (with 2 concentrations)
- BA in Political Science & International Relations
- BS in Psychology

Anatolia University awards a significant number of scholarships each year, thanks to an extensive need and merit-based financial aid program.

Anatolia

American University

U.L.E.

17 Sevenidi St | Pylea, Thessaloniki | Greece
T: (+30) 2310 398.398
E: university-admissions@anatolia.edu.gr

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