ALEN SOUTH LAKE UNIVERSITY

2025-2026 Academic Catalog

Volume 4

A Message from the President

Welcome to Alen South Lake University, the University of Invention!

Congratulations on taking the first step towards achieving your dreams. I hope your time here is both rewarding and transformative.

I firmly believe that everyone has the potential for greatness. I know this firsthand, having worked hard to achieve my own goals from humble beginnings. Now, it's my turn to help you reach yours.

Education is the key to unlocking your full potential. It can open doors to new possibilities, develop valuable skills, and create a sustainable future. To succeed, you need a clear vision and a strong work ethic.

Our programs and resources are designed to help you achieve your goals. We offer forward-thinking courses taught by experienced faculty. Our state-of-the-art technology provides the tools you need to succeed.

We're committed to your success. Join us on this journey and let's work together to unleash your full potential. Welcome to the Alen South Lake University family!

Dr. Alvaro Enrique Sanchez Castro

President

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PURPOSE

The current university was condemned to decline as the British Encyclopedia disappeared. We are the University of Invention and the Future. We have set out to be the best online university in the world. We have proposed this destiny with all the strength of our will and our dreams. The new technological and scientific reality demands the awakening of human potential at the same rate as the acceleration of science and technology. We know that in every being there is a giant at rest, a potential genius, a hero, or something else, and we have set out to develop that something else. With the creativity to invent new realities, with the leadership and business and managerial professionalism to direct our destiny, and possibly approaching humanity.

MISSION

We are one step ahead of the future because we invented it, and when we succeed at that moment, we invent it again. Our characteristic is invention; beyond innovation, we invent new professions and the professions of the future. We invent new companies that will invent the new economy. In each of our students' life projects, we invent infinite wealth because creativity, innovation, and invention is limitless.

We train our students with a sense of history and greatness; they learn to do the impossible with deep scientific, ethical, aesthetic, and supportive criteria. The urgency now is to save planet Earth and the survival of the human race. This great task is our responsibility, our duty, and our commitment.

OBJECTIVES

- To create an online environment conducive to the development of knowledge in order to attain sustainable growth in the social, cultural, technological, economic, and environmental fields.
- To focus on higher education students looking for class delivery flexibility, promoting knowledge and integrating it with critical thinking in their interdisciplinary and social dimensions that will lead them to discernment, reconciliation, and integration through innovation and internationalization.
- To sustain quality online education, knowledge creation, and sharing through information technology-based knowledge organization, innovation in technology, philosophy, and processes, and continuous improvement.
- To develop human capital and expand research internally and with its stakeholders.

- To create strategic partnership agreements with other universities in order to solidify academic and research growth.
- To implement updated instructional technology in order to provide quality delivery of our higher education programs.
- To create academic strategies that will allow students and professors to meet in forums, chats, and virtual meetings to fulfill the requirements of research and academic promotion.

LICENSURE STATUS

Alen South Lake University is licensed by the Commission for Independent Education, Florida Department of Education

Additional information regarding Alen South Lake University may be obtained by contacting the Commission for Independent Education at 325 West Gaines Street, Suite 1414, Tallahassee, Florida 32399, or toll-free at (888) 224-6684, or http://fldoe.org/policy/cie/

OUR FACILITIES

Alen South Lake University is based in Clermont, Florida, USA, with its administrative office located at 1655 E. Hwy 50, Suite 323, Clermont, FL 34711. This facility handles all administrative operations. Academic programs are delivered exclusively through the university's online platform.

METHOD OF INSTRUCTION: ONLINE DELIVERY

Alen South Lake University is aware that appropriate online instruction enables the effective achievement of educational goals. It is important to maintain that the student will have a space to reflect and acquire knowledge from the materials, the interaction with the instructor, and the learning community.

The online platform will allow these interactions to be more flexible. It is important to outline the following criteria: a) The instructor has knowledge of online instructional technology and can help students who have any issues. b) The virtual classroom will find relevant information to schedule activities, facilitators, support material, a list of participants, assessments, activities, and other information by phase. c) The delivery of activities must be done according to the established schedule and with the constant attention of the teachers.

The flexibility offered by virtual studies is that it is not necessary to attend a classroom; however, forums or conferences can be set up online when teachers deem appropriate, at a predetermined fixed schedule, one day a week at the most (and not every week). One can pursue studies at home or at their workplace, anywhere in the world.

Class Schedules

Once the registration process is finished, students can start taking their online classes.

They are expected to take and finish at least one course every month. If they want to take more than one course per month, this has to be approved by the academic coordinator.

Online Structure

Alen South Lake University has developed alliances with strategic partners to host its technological infrastructure and guarantee the reliability needed for its educational purposes.

The servers have ample hosting capabilities providing all the web management privileges and the creation of several sites through FTP, which allows us to have total control over our website. Web hosting offers an advanced platform that operates with Linux under the best performance characteristics so as to provide greater reliability for the websites and applications management. The server includes a remote desktop connection with all the management benefits necessary to be able to install and execute any application.

Moreover, the hosting comes with unlimited domains, database creation, and performance customization to meet our needs.

LEARNING PLATFORM

Our learning platform is an e-learning education system anchored on the widely tested and tried Moodle 5.0 with added custom tools for enhanced performance. Some of the elements contained in the platform are:

- The course syllabus: outlines the structure of the class.
- Forums: This asynchronous tool allows class participants to create threads of information that will be available throughout the class; it's a great tool for studying down the road.
- Chats allow students to interact with other students and the Calendar: reminds students of class progress and tasks, quizzes, or exams ahead.
- Document load zone: throughout the course, students will have spaces to upload their assignments in a clear and convenient.

THE ACADEMIC CALENDAR

Alen South Lake University has registration throughout the year, from January to December. Students can start their classes as soon as the registration process is completed.

Addendum Academic Calendar 2024-2025 (last term).

	Fall 2025 Term B
Beginning of Enrollment	10/06/2025
Registration End Date	10/17/2025
Start of Term	10/20/2025
Campus Closed	11/27-11/28 (Thanksgiving)
End of Term	12/17/2025
Grade Reporting Due	12/22/2025

** STUDENT WINTER BREAK: 12/18/25 to 1/12/26
*** CAMPUS CLOSED (Christmas and New Year's Holiday): 12/23/25 to 1/2/2026

Academic Calendar 2025-2026

	Winter 2026 Term	Spring 2026 Term
Beginning of Enrollment	12/29/25	3/9/2026
Registration End Date	1/9/2026	3/20/2026
Start of Term	1/12/2026	3/23/2026
Campus Closed	1/19/2026 (MLK Day) 2/16/2026 (Presidents Day)	04/02/2026 - 04/03/2026 (Spring Break)
End of Term	3/10/2026	5/19/2026
Grade Reporting Due	3/13/2026	5/22/2026

	Summer 2026 Term	Fall 2026 Term A	Fall 2026 Term B
Beginning of Enrollment	5/25/2026	7/27/2026	10/2/26
Registration End Date	5/29/2026	8/07/2026	10/16/26
Start of Term	6/01/2026	8/10/2026	10/19/26
Campus Closed	6/19/2026 (Juneteenth) 7/3/2026 (4th of July observed)	9/7/26 (Labor Day)	11/26-11/27 (Thanksgiving)
End of Term	7/28/2026	10/05/2026	12/15/26
Grade Reporting Due	8/04/2026	10/08/2026	12/18/26

** STUDENT WINTER BREAK: 12/15/26 to 1/10/27
*** CAMPUS CLOSED (Christmas and New Year's Holiday): 12/21/26 to 1/3/2027

Alen South Lake University observes the following holidays:

- New Year's Day (January 1st)
- Martin Luther King Day
- President's Day
- Easter
- Memorial Day
- Juneteenth
- Independence Day (July 4th)
- Labor Day
- Thanksgiving
- Christmas
- New Year

Credit Hour

One credit is equivalent to 15 hours of interaction between the student and the instructor. A standard course includes 45 hours of student instructor interaction. This interaction is both synchronous and asynchronous.

In addition to the interaction with the instructor, a student is expected to devote a minimum of 30 hours per credit to reading course materials and other independent studies. The total hours for a 3 credit course would be 135 hours of synchronous and asynchronous interaction.

Grading System

At the end of each course, a letter grade (see table below) is assigned to reflect the student's performance. Passing grades, defined as any grade other than an "F," earn credit toward program completion. To graduate, students must receive credit in all required courses.

The Grade Point Average (GPA) is calculated by first converting each course grade into its grade point value, as outlined in the table. These values are then averaged to determine the student's overall average, also known as the cumulative GPA. This cumulative GPA is obtained by dividing the total grade points earned by the total number of credit hours attempted across all completed courses.

Grade	Percentage	GPA
A+	97–100	4.0
A	93–96	4.0
A–	90–92	3.7
B+	87–89	3.3
B	83–86	3.0
B–	80–82	2.7
C+	77–79	2.3
C	73–76	2.0
C–	70–72	1.7
D+	67–69	1.3
D	63–66	1.0
D–	60–62	0.7
F	59 or below	0.0

W (withdrawal): If a student needs to drop a course, but the period of add/drop has passed, he/she must inform the professor and the university. They will then receive a withdrawal form to complete and sign. This form must also be signed by the professor and sent to the registrar's office.

This grade is assigned to students who request a withdrawal before the eighth class meeting, and are not failing.

WA (administrative withdrawal): an administrative withdrawal may take place due to administrative action pertaining to student continued non-attendance, not meeting official admissions standards and stopped attending classes without notifying student services, the registrar, or other administrative office.

WF (withdrawal, failing): is assigned to students who request a withdrawal after the eighth week of class and are failing the course at the time; or attend the course at least once and then stop attending the class. A "WF" grade counts as an "F" toward the student GPA.

I (incomplete): are assigned to students who have completed most of the course requirements but need extra time to finish an assignment or test. Incomplete grades must be agreed upon between the student and instructor.

IF (incomplete, failing): is assigned to students who requested an incomplete grade and did not finish the coursework within the designated time frame or complete the course, but failed.

Minimum Academic Standards

To graduate, students need the following minimum GPA: **Bachelor's degree:** 2.5 cumulative GPA and **Master's degree:** 3.0 cumulative GPA.

Each term, students must pass at least 60% of the classes they attempt to stay in good standing.

Students will be placed on academic probation if they do not meet the minimum GPA requirements. Undergraduate students are required to maintain a cumulative GPA of 2.5, while master's students must maintain a cumulative GPA of 3.0. If a student's cumulative GPA falls below the required threshold in any given term, they will be placed on academic probation and expected to raise their GPA to the minimum required level by the end of that term. Failure to do so while on probation will result in dismissal from the program.

How GPA is Calculated:

For each course: a) Multiply the grade points earned by the number of course credits. b) Add up these totals for all courses. c) Divide by the total number of credits attempted.

Incomplete Grades (I):

- An "Incomplete" grade (I) may be given if a student has finished about 80% of the course before it ends.
- The student must request an Incomplete before the last day of class.
- The request must include:
- A list of missing work
- A plan to finish it
- A final deadline to turn it in—no later than 3 days after the course ends

Note: Discussion assignments cannot be made up after the course ends and will be graded based on what was submitted by the final day.

Instructor & Tech Support Response Times:

Instructors reply within 24 hours on weekdays and 48 hours on weekends for questions and grading. Technical support also replies within 24 hours on weekdays and 48 hours on weekends (during office hours).

Evaluation

The course syllabus shows students what is expected of them throughout the course and includes didactic units, thematic units, study tasks, learning outcomes, and activities. Students are responsible for regularly reviewing the course syllabus and completing all required assignments and other programmed learning activities. The use of forums, chats, and other communication tools gives instructors the opportunity to provide continuing evaluation and feedback to students as they prepare their formal evaluations. Formal evaluations are implemented using assessments or quizzes. For assignments, a text file is submitted by the student; the instructor corrects it, gives feedback, and assigns a grade. Quizzes are corrected automatically, and the grading is instantaneous.

All exams are administered through our password-protected online platform. These exams are monitored through IP tracking to ensure the student is the only user. Students are expected to adhere to the timeline and retake policies provided by the professor in the syllabus. Any retakes are at the discretion of the professor. In particular occasions, it may be required to have proctored evaluation.

Response Time

When a student sends a message with a question or posts a message on a forum, the instructor is expected to respond within 24 hours during the weekdays, and 48 hours during the weekends. The same response time is used for evaluations that require the

instructor's review, grading, and feedback. Technical support is provided within office hours.

Attendance and record keeping

To demonstrate academic attendance, the student is required to do more than just "log in" to be documented as having attended an online course.

To be considered present and counted for attendance during the synchronous component of a class, students are expected to be actively engaged. Active engagement in a synchronous online class requires students' real-time participation through interactive activities such as asking questions, contributing to discussions, responding to polls, collaborating in breakout rooms, or completing live tasks, with their cameras on to foster a dynamic and interactive learning environment, unless technical issues have been communicated to the faculty member in advance.

For the asynchronous component of a class, attendance is kept by the institution through its learning management system. Acceptable indications of attendance on an online course can include:

- Student submission of an academic assignment.
- Documented student participation in an interactive tutorial or computer-assisted instruction.
- A posting by the student showing the student's participation in an online study group that is assigned by the institution.
- A posting by the student in a discussion forum showing the student's participation in an online discussion about an academic topic.
- An email from the student or other documentation showing that the student initiated contact with a faculty member to ask a question about an academic topic studied in the academic programs.

Code System

At Alen South Lake University courses are identified by a prefix of three letters and four numbers. The letters determine the area of study. The numbers identify the academic level. The numbers that start with 1 and 2 are for the lower level, and 3 and 4 are for the upper level of the undergraduate programs. The numbers that begin with 5 and 6 are for the master's degree programs.

BUA - Business Analytics
CEN - Computer Engineering
CHE - Coaching in Education
COR - Core Curriculum

CSY - Computer Systems
EDU - Education
ENT - Entrepreneurship
GEN - General Education
ICT - Information and Communication Technology
MBI - Mgmt. in Business Intelligence
MDM - Mgmt. in Digital Marketing
MEN - Mgmt. in Entrepreneurship
MSM - Mgmt. in Sports Management
MAK - Digital Marketing
IAR - Artificial Intelligence
SEC- Cybersecurity

Language

Alen South Lake University developed a completely bilingual online platform (English/ Spanish). This platform allows the instructor to teach postsecondary courses in English and/or Spanish. To guarantee the quality of the academic experience, the university adapted its platform with the following features:

1. Bilingual online: This feature will allow students to navigate through their courses, academic resources, and, in general, all the information available in English and Spanish.
2. Bilingual course design. Alen South Lake University has developed all of its courses in English and Spanish; this will allow students to access the same academic content in both languages if needed.
3. Our bilingual faculty and our human capital are the keys to our operations. Alen South Lake University hires bilingual professionals, or those who can communicate in English or Spanish.

Language Disclaimer

COMPLETING A COURSE OR PROGRAM IN A LANGUAGE OTHER THAN ENGLISH MAY REDUCE EMPLOYABILITY WHERE ENGLISH IS REQUIRED

ACADEMIC PROGRAMS

- Bachelor of Science in Computer Science 120 c/h
  - ✓ Minor in Computer Engineering
  - ✓ Minor in Computer Systems

- Bachelor of Science in Management 120 c/h
  - ✓ Minor in Business Intelligence
  - ✓ Minor in Entrepreneurship
  - ✓ Minor in Sports Management
  - ✓ Minor in Digital Marketing

- Master of Science in Artificial Intelligence 39 c/h

- Master of Science in Business Analytics 33 c/h

- Master of Science in Cybersecurity 39 c/h

- Master of Science in Digital Marketing 33 c/h

- Master of Science in Entrepreneurship 39 c/h

- Master of Science in Online Education 36 c/h
  - ✓ Specialization in Coaching
  - ✓ Specialization in Computer Innovation for Online Education

UNDERGRADUATE PROGRAMS

Credits from other institutions can be considered for transfer to any undergraduate program.

BACHELOR OF SCIENCE IN COMPUTER SYSTEMS—120 CREDITS

Program Description:

This program provides students with a solid foundation to develop the ability to analyze, synthesize, and design both core parts of modern computing systems centered on computers through learning the scientific foundation to hardware and software engineering and applying it in engineering exercises. Students are innovative in the design, research, and implementation of systems and products with strong problem-solving, communication, teamwork, leadership, and entrepreneurial skills.

Program Objectives:

Upon completion of this program, students will have the ability to:

1. Design and conduct experiments as well as to analyze and interpret data.
2. Focus on how information and computing systems support functioning in multi-disciplinary teams.
3. Identify, formulate, and solve engineering problems.

Entrance Requirements:

- High School Diploma or GED
- Diplomas from previous studies
- Translation and official transcription of previous studies
- Copy of any official identification document
- Complete and send the registration agreement

Degree Offered: Bachelor of Science in Computer Science in the selected minor.

GENERAL EDUCATION (30 CREDITS)

GEN1000 English Composition I 3
GEN1001 Innovation and Disruptive Thinking 3
MAT1007 College Algebra 3
GEN1003 Global & Environmental Sustainability 3
GEN1004 Creativity, Art and Superior Intelligence 3
GEN3000 English Composition II 3
GEN3001 Fundamentals of Programming 3
GEN3005 Fundamentals of Science and Technology 3
GEN3003 Knowledge Management 3

GEN3004 Leadership and Personal Power 3

CORE CURRICULUM (60 CREDITS)

COR1018 Critical Thinking 3
COR1021 Introduction to Computer Science 3
ICT2041 Programming Languages 3
COR1022 Thermodynamics 3
COR1023 Discrete Math for Computer Science 3
COR1124 Linear Algebra 3
COR1025 Theory of Computing 3
ICT2044 Data Management I 3
COR1026 Digital Logic 3
COR1027 Human Computer Interaction 3
COR3021 Programming Abstractions 3
COR3022 Analytical Geometry and Calculus 3
ICT4046 Models and Systems Simulation 3
ICT4047 Machine Learning Challenge and Future Project 3
ICT4048 Robotics 3
COR3023 Technology Project Management 3
COR3024 Optimization 3
COR3025 Calculus 3
COR3026 General Physics 3
COR3027 Entrepreneurship Project 3

MINOR IN COMPUTER ENGINEERING (30 CREDITS)

ICT4045 Cybersecurity 3
CEN2052 Computer Architecture 3
CEN2053 Data Structure 3
CEN2054 Object-oriented Programming 3
CEN2055 Professional Communication for Engineering 3
CEN4051 Statistics for Engineering Technology 3
CEN4052 Logic Programming 3
CEN4053 Data Communication and Networking 3
CEN4054 Program Structure 3
CEN4055 Introduction and Implementation Machine Learning 3

MINOR IN COMPUTER SYSTEMS (30 CREDITS)

CSY2061 Operating Systems 3
CSY2062 Software Systems Architectures 3
CSY2063 Artificial Intelligence 3
CSY2064 Computer Systems and Networks 3

CSY2065 Computer and Graphics 3
CSY4061 Network Management 3
CSY4062 Digital Logic and Computer Systems 3
CSY4063 Discrete Mathematics for Computer Science 3
CSY4064 Automata and Formal Languages 3
ICT4045 Cybersecurity 3

BACHELOR OF SCIENCE IN MANAGEMENT—120 CREDITS

Program Description:

The purpose of the Bachelor of Science in Management is to develop the business, communication, organizational, and computer applications skills necessary to become company leaders. Students learn to manage employees, maintain a budget and implement organizational changes.

They may also be instructed in motivational strategies, techniques for virtual communication, and global business practices.

Program Objectives:

Upon completion of this program, students will have the ability to:

1. Demonstrate effective written communication and analytical skills.
2. Apply management skills in decision-making and analysis of the organizational structure.
3. Examine ethical behaviors and legal implications of an organization in social, environmental, and corporate environments.
4. Evaluate the role of a manager in the global economy.
5. Develop critical thinking skills for analysis in strategic planning and innovation.
6. Develop socially responsible solutions to business problems in both local and global environments
7. To integrate functional business knowledge in a team setting.
8. Apply digital marketing in a management project.

Entrance Requirements:

- High School Diploma or GED
- Diplomas from previous studies
- Translation and official transcription of previous studies
- Copy of any official identification document
- Complete and send the registration agreement

Degree Offered: Bachelor of Science in Management in the selected minor

GENERAL EDUCATION (30 CREDITS)

GEN1000 English Composition I 3
GEN1001 Innovation and Disruptive Thinking 3
MAT1007 College Algebra 3
GEN1003 Global & Environmental Sustainability 3
GEN1004 Creativity, Art and Superior Intelligence 3

GEN3000 English Composition II 3
GEN3001 Fundamentals of Programming 3
CHE4033 Coaching and Mentoring 3
GEN3003 Knowledge Management 3
GEN3004 Leadership and Personal Power 3

CORE CURRICULUM (60 CREDITS)

COR1018 Critical Thinking 3
COR1028 Human Resources Management 3
ICT2041 Programming Languages 3
COR1029 Brand Management 3
COR1030 Creativity & Innovation 3
COR1024 Macroeconomics 3
COR1031 Microeconomic 3
ICT2044 Data Management I 3
COR1032 Coaching & Leadership Skills 3
CHE4035 Emotional Intelligence 3
COR3023 Technology Project Management 3
COR3027 Entrepreneurship Project 3
COR3028 Corporate Finance 3
COR3029 Data Analytics 3
COR3030 Accounting I 3
COR3031 Introduction to Statistics 3
COR3032 Fundamentals of Artificial Intelligence 3
COR3033 Leadership and Multicultural Environment 3
COR3034 Marketing 3
COR3035 Nonprofit Management 3

MINOR IN BUSINESS INTELLIGENCE (30 CREDITS)

MBI2071 Business Intelligence 3
MBI2072 Principles of Management and Business Intelligence 3
MBI2073 Strategy Planning for Business 3
MBI2074 International Business 3
MBI2075 BI and Data Analysis 3
MBI4071 Business Modeling 3
MBI4072 Business to Business Marketing and Sales 3
MBI4073 Decision Models and Analytics 3
MBI4074 Disruptive Innovations 3
MBI4075 Database Design and Data Warehousing 3

MINOR IN ENTREPRENEURSHIP (30 CREDITS)

MEN2081 Entrepreneurial Skills 3

MEN2082 Bio Entrepreneurship 3
MEN2083 Entrepreneurship Creativity and Problem Solving 3
MEN2084 Social Entrepreneurship 3
MEN2085 Opportunity Assessment 3
MEN4081 New Venture Planning 3
MEN4082 Entrepreneurial Finance 3
MEN4083 Entrepreneurial Consulting 3
MEN4084 The Entrepreneurial Mindset
MEN4085 Corporate Innovation Strategies and Entrepreneurial Methods 3
MEN4084 The Entrepreneurial Mindset 3

MINOR IN SPORTS MANAGEMENT (30 CREDITS)

MSM2091 Introduction to Sports Management 3
MSM2092 Entrepreneurship Tourism, Recreation and Sports Management 3
MSM2093 Sports Facilities and Event Management 3
MSM2094 Sports Finance and Economics 3
MSM2095 Moral and Ethical Reasoning in Sports 3
MSM4091 Strategic Sports Management 3
MSM4092 Legal Aspects of Sports 3
MSM4093 Research Methods in Sports Management 3
MSM4094 Sports in the Global Market 3
MSM4095 Biomechanics 3

MINOR IN DIGITAL MARKETING (30 CREDITS)

MDM2101 Graphic Design 3
MDM2102 Digital Marketing 3
MDM2103 Digital Imaging and Manipulation 3
MDM2104 Global Marketing Management 3
MDM2105 Marketing Decision Analysis 3
MDM4101 Social Media Marketing 3
MDM4102 Machine Learning 3
MDM4103 Consumer Behavior 3
MDM4104 Neuromarketing 3
MDM4105 Digital Marketing Project 3

GRADUATE PROGRAMS

MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE—39 CREDITS

Program Description:

The Master of Science in Artificial Intelligence program focuses on developing computer systems that simulate human intelligence. It prepares students to design decision-support systems and build applications that efficiently retrieve and manage information across networks.

Program Objectives:

Upon completion of this program, students will have the ability to:

1. Know the objectives and origins of artificial intelligence.
2. Understanding the concepts of artificial intelligence and rationality.
3. Know technical differences to solve problems.
4. Analyze problems and determine decision-making techniques.
5. Analyze knowledge needs for decision-making.

Entrance Requirements:

- Bachelor's degree
- Enrollment Application filled and signed
- Diplomas of previous studies
- Official Transcripts of previous studies
- Copy of official identification

Degree Offered: Master of Science in Artificial Intelligence

COURSE PLAN (39 CREDITS)

IAR5000 Computational Intelligence 3
IAR5001 Machine Learning and Deep Learning 3
IAR5002 Machine Vision and Pattern Recognition 3
IAR5003 Intelligence Systems 3
IAR5004 Data Science 3
IAR5005 Artificial Cognitive Systems 3
IAR6001 Natural Language Processing 3
IAR6002 Planning and Approximate Reasoning 3
IAR6003 Complex Networks and Mind Brain and Machines 3
IAR6004 Principles, Devices, Communications and Infrastructure for AI/IOT and Robotics 3
IAR6005 Decision Making Under Uncertainty 3
IAR6006 AI Capstone Project 6 **must be completed during last term of the program.*

MASTER OF SCIENCE IN BUSINESS ANALYTICS—33 CREDITS

Program Description:

The Master of Science in Business Analytics prepares students in this fast-growing field of managing large quantities of data. This graduate program requires a solid quantitative background and will prepare students for entry into a career as business professionals performing or understanding data analysis.

Program Objectives:

Upon completion of this program, students will have the ability to:

1. Use case studies and hands-on exercises that cover various business domains.
2. Perform data analysis using BI visualization tools.
3. Develop, collect, analyze, and report marketing decision-based data derived from survey data analyzed with electronic research software such as SPSS.
4. Model tools and methods for predictive analytics for decision-making in business and economics.
5. Investigate and analyze Big Data electronic databases via electronic software to create marketing information to enable informed marketing tactical and strategic plans.
6. Apply optimization and simulation models in decision-making.
7. Apply data analytic processes to the human resource practices to assess, plan, and to ensure compliance.
8. Understand, visualize, analyze, and report social media and web data.
9. Integrate functional knowledge acquired in courses through the completion of a consulting project

Entrance Requirements:

- Bachelor's degree
- Enrollment Application filled and signed
- Diplomas of previous studies
- Official Transcripts of previous studies
- Copy of official identification

Degree Offered: Master of Science in Business Analytics

COURSE PLAN (33 CREDITS)

BUA6021 Business Analytics 3
BUA6022 Visual Analytics 3
BUA6023 Quantitative Marketing Research 3

BUA6024 Predictive Analytics Modeling in Business and Economics 3
BUA6025 Marketing Analytics 3
BUA6026 Optimization and Simulation Models 3
BUA6027 Integrated Business Simulation 3
BUA6028 Human Resources Analytics 3
BUA6029 Social Media & Web Analytics 3
BUA6030 Data Analytic Project Management 3
BUA6031 Business Analytics Capstone Project 3 **must be completed during last term of the program.*

MASTER OF SCIENCE IN CYBERSECURITY—39 CREDITS

Program Description:

The Master of Science in security systems, students will be ready to understand and manage the acquisition, structure, and visualization of data and information within the framework of computer engineering and assessing the results. Also, manage the information competently and evaluate the information found and identify the risks.

Program Objectives:

Upon completion of this program, students will have the ability to:

1. Be able to understand the security threats and risks of computer systems.
2. Understand and identify access control mechanisms of an operating system.
3. Understanding the operation of intrusion detection systems.
4. Protection mechanisms for distributed applications and solutions that protect them.

Entrance Requirements:

- Bachelor's degree
- Enrollment Application filled and signed
- Diplomas of previous studies
- Official Transcripts of previous studies
- Copy of official identification

Degree Offered: Master of Science in Cybersecurity

COURSE PLAN (39 CREDITS)

SEC5000 Security Fundamentals and Risk Management 3
SEC5001 Cyber Analyst and Cryptography 3
SEC5002 Integrative Cybersecurity Management 3
SEC5003 Legal Aspects of Security 3
SEC5004 Network and Operating Systems Security 3
SEC5005 Database and Application Security 3
SEC6001 Intrusion Detection and Prevention Systems and Forensic Analysis 3
SEC6002 Vulnerability Management 3
SEC6003 Security Audit 3
SEC6004 Security Administrator and Business Continuity Planning 3
SEC6005 Ethical Hacking 3
SEC6006 Cybersecurity Capstone Project 6 **must be completed during last term of the program.*

MASTER OF SCIENCE IN DIGITAL MARKETING—33 CREDITS

Program Description:

The Master of Science in Digital Marketing prepares students to analyze real-world scenarios, identify patterns, and make informed decisions by effectively understanding, managing, and addressing marketing challenges.

Program Objectives:

Upon completion of this program, students will have the ability to:

1. Develop a deep understanding of digital marketing principles, tools, and strategies.
2. Analyze consumer behavior and digital trends to inform marketing decisions.
3. Design and manage data-driven marketing campaigns across digital platforms.
4. Identify and interpret key performance indicators (KPIs) to measure campaign success.
5. Use analytics to detect patterns and solve real-world marketing problems.
6. Apply ethical decision-making and critical thinking in digital marketing contexts.
7. Leverage emerging technologies to optimize marketing strategies.
8. Integrate SEO, content marketing, email campaigns, and social media strategies.

Entrance Requirements:

- Bachelor's degree
- Enrollment Application filled and signed
- Diplomas of previous studies
- Official Transcripts of previous studies
- Copy of official identification

Degree Offered: Master of Science in Digital Marketing

COURSE PLAN (33 CREDITS)

MAK5000 Business Model 3
MAK5001 Advertising Models and Metrics 3
MAK5002 Multicultural Marketing 3
MAK5003 Information Systems Management 3
MAK5004 Data Analytics 3
MAK6000 Social Media Marketing. Web analysis 3
MAK6001 Analysis of AdWords, Content Marketing 3
MAK6002 Competitive Advantages, Smart Goals. 3
MAK6003 Definition of Objectives. Goals and Conversion. Google Data 3
MAK6004 Digital Marketing Capstone Project 6 **must be completed during last term of the program.*

MASTER OF SCIENCE IN ENTREPRENEURSHIP—39 CREDITS

Program Description:

The Master of Science in Entrepreneurship program is designed for those individuals who hope to create, advance, and run their own businesses, whether on a local level or a global level. The courses cover the process of coming up with new ideas, nurturing them, and refining them. Students will have opportunities to design the infrastructure of a business using modern methods, technology, and business practices. Courses include technology development and operations entrepreneurship.

Program Objectives:

Upon completion of this program, students will have the ability to:

1. Make entrepreneurial decisions.
2. Innovate business model formulation and evaluation.
3. Develop new product and execution strategies.
4. Form and grow a business team.
5. Apply finance to launch a new venture.

Entrance Requirements:

- Bachelor's degree
- Enrollment Application filled and signed
- Diplomas of previous studies
- Official Transcripts of previous studies
- Copy of official identification

Degree Offered: Master of Science in Entrepreneurship

COURSE PLAN (39 CREDITS)

ENT6041 Entrepreneurial Mindset 3
ENT6042 Avoiding Pitfalls in Entrepreneurship 3
ENT6043 New Product Development 3
ENT6044 Technology Development and Implementation 3
ENT6045 Operations Management 3
ENT6046 Leading Effective Teams 3
ENT6047 Advanced Analytics for Entrepreneurs 3
ENT6048 Sales Management 3
ENT6049 Innovation and Sustainability 3
ENT6050 Finance for Entrepreneurs 3
ENT6051 Law for Entrepreneurs 3
ENT6052 Entrepreneurship Capstone Project 6 **must be completed during last term of the program.*

MASTER OF SCIENCE IN ONLINE EDUCATION—36 CREDITS

Program Description:

The Master of Science in Online Education equips professional educators with a well-rounded curriculum that combines advanced instructional content and innovative methodologies. Graduates are prepared to excel as online educators and leaders in areas such as instructional coaching and educational technology. The program empowers them to deliver holistic, future-focused education to the next generation of learners.

Program Objectives:

Upon completion of this program, students will have the ability to:

1. Identify the best uses and practices of coaching for education.
2. To describe the most important aspects of diversity in online education.
3. Implement innovative resources in online education.
4. Manage knowledge in social learning environments.
5. Use social media and networking as tools in online education.

Entrance Requirements:

- Bachelor's degree
- Enrollment Application filled and signed
- Diplomas of previous studies
- Official Transcripts of previous studies
- Copy of official identification

Degree Offered: Master of Science in Online Education

COURSE PLAN (36 CREDITS)

CORE CURRICULUM (24 CREDITS)

EDU5000 Online Education in the 21st Century 3
EDU5001 Design of Evaluation Strategies in Online Education 3
EDU5002 Research as Tool in Online Education 3
EDU5003 Current Issues and Challenges in Online Education 3
EDU5004 Innovative Resources for Online Education 3
EDU5005 Educational Psychology 3
EDU5006 Online Education Capstone Project 6 **must be completed during last term of the program.*

SPECIALIZATION IN COACHING (12 CREDITS)

CHE6000 Evolutionary Coaching 3

CHE6001 Coaching Techniques in Education 3
CHE6002 Ethnicity and Diversity 3
CHE6003 Attention Management 3

SPECIALIZATION IN COMPUTER INNOVATION FOR ONLINE EDUCATION (12 CREDITS)

ICT6011 Programming for Online Education 3
ICT6012 Virtual Reality and Gamification 3
ICT6013 Artificial Intelligence & Machine Learning Implementation 3
ICT6014 Data Management II 3

Graduation Requirements

To be awarded a degree from Alen South Lake University, students must fulfill the following requirements:

- Satisfactorily complete all the credits of the chosen program of study.
- Complete their respective program requirements within certain time limits, which are defined in terms of attempted credit hours.
- For a Bachelor's degree, it is 40 months, and for a master's degree, the time frame is 12 months.
- Have no outstanding financial obligations with Alen South Lake University.
- Fill in and sign the form “Change of Status”
- To graduate, bachelor’s students must have a GPA of 2.5 or higher, and master’s students must have a GPA of 3.0 or higher on a 4.0 scale.

Academic Standards and Policies – Academic Probation

Students who do not meet the required academic standards will be placed on academic probation. Undergraduate students with a cumulative GPA of 2.0 or below, and Graduate students with a cumulative GPA of 3.0 or below may be placed on academic probation in any given academic term.

Students placed on academic probation will receive written notification from the university. Once on probation, they must achieve a minimum 2.0 GPA each term for bachelor’s programs or a 3.0 GPA each term for master’s programs. Failure to meet these minimum GPA requirements in any term while on academic probation will result in dismissal from the program.

With approval from the Provost, students on academic probation may be granted up to two academic terms to improve their academic standing. During this time, they may retake failed courses to raise their GPA. The cost of retaking courses is the sole responsibility of the student, and all attempted grades will count toward the GPA calculation.

At the end of the probationary period, if the student meets the required academic standards and demonstrates the ability to continue successfully, the Provost may reinstate the student to good academic standing for the next term.

Leave of Absence

Students in good academic and financial standing at Alen South Lake University may request a leave of absence for up to two academic terms. This option is available for situations beyond the student's control, such as serious illness, a family emergency, or other extreme personal circumstances. To request a leave, students must submit a Leave of Absence Request Form along with written documentation that explains the situation and how it has affected their ability to continue their studies. All requests are reviewed and must be approved by the Provost. During the approved leave period, students are not required to take classes or make tuition payments. However, no exceptions or waivers will be granted for graduation requirements due to the leave of absence.

Canceled Status

If a student does not return after the approved leave period of two academic terms or fails to make required payments, they will be moved to Canceled Status.

To re-enroll, students in Canceled Status must: a) Pay a re-registration fee of $150, b) Cover tuition for the courses they plan to take.

Students may not register for any courses until both the fee and tuition payments are made.

Withdrawal Status

Withdrawal is a voluntary status for students who choose to permanently leave the university and are unable to continue their program.

To withdraw, students must: 1) Submit and sign a Withdrawal Request Form, 2) Have no outstanding coursework or unpaid balances, and 3) Pay a withdrawal fee equal to the cost of three (3) program credits.

The withdrawal must be requested at least one month in advance. Students may complete any ongoing courses as long as they are finished within that one-month window following the submission of the form.

Academic Honors

The Dean's List is an academic honor attributed to students whose semester GPA is 3.50 or higher during a given term while carrying an academic load of 8 or more credits within

that term. During the commencement ceremony, the University will recognize the top five students in each graduating class. Students can be placed in any of the following.

Honor Categories

- Magna Cum Laude (With Great Praise) is an honorary title of academic recognition reserved for students that obtain a cumulative GPA of 4.0 on the grade scale (A).
- Summa Cum Laude (With Highest Distinction) is reserved for students that obtain a cumulative GPA between 3.7 to 3.9 on the grade scale (A-).
- Cum Laude (With Distinction) is reserved for students that obtain a GPA of 3.3 to 3.6 on the grade scale (B+).

Repeating a Course

A course can be repeated by a student who has received a failing grade (F). The fees for the course will be assumed only by the student, and be counted in the student's academic average and cumulative GPA. The new grade will replace the previous grade for the purpose of calculating GPA. The cost for the repeated course is $270 USD. Students will be duly informed about any cost changes.

Student's behavior policy

Students of Alen South Lake University, as well as applicants, who become students and former students, are expected to comply with all laws and with the institution's policies as well as online campus regulations.

The following types of conduct are unacceptable:

- All forms of academic misconduct, including plagiarism but not limited to cheating, fabrication, plagiarism, or facilitating academic dishonesty.
- Other forms of dishonesty include, but are not limited to, fabricating information, furnishing false information, or reporting a false emergency to the institution.
- Forgery, alteration, or misuse of any institution document, record, key, electronic device, or identification.
- Unauthorized entry to, possession of, receipt of, or use of any institution's services, equipment, resources, or property, including the institution's name, insignia, or seal.
- Sexual harassment: sexual harassment is any unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature when submission to or rejection of this conduct explicitly or implicitly affects a person's education, unreasonably interferes with a person's educational

performance or creates an intimidating, hostile or offensive learning environment. In the interest of preventing sexual harassment, the institutions will respond to reports of any such conduct.

- Harassment behavior in which an individual repeatedly engages in conduct directed at another person and makes a credible threat with the intention of putting that person in reasonable fear for their safety or the safety of their family, where it is reasonably determined that a legitimate threat alarms or seriously torment the person; and also that the threat has no legitimate purpose.
- Obstruction or disruption of teaching, research, administration, disciplinary procedures, or other Institute activities.
- Failure to adhere to, or comply with the directions of an institution official or other public official acting in the performance of his or her duties while at an official institution, or resisting or obstructing such institution or other public officials in the performance of or the attempt to perform their duties.
- Selling or distributing any course lecture notes for any commercial unless authorized video or audio recordings of any course unless authorized by the institution in advance and explicitly permitted by the course instructor in writing. The unauthorized sale or commercial distribution of course notes or recordings by a student is a violation of these policies, whether or not it was the student or someone else who prepared the notes or recordings. Copying handouts, readers, or other course materials provided by an instructor as part of the institution's course for any commercial purpose, unless the institution is authorized by the institution in advance and explicitly permitted by the course instructor or the copyright holder in writing, is prohibited.

Penalties for Misconduct

Such violations may impose penalties for violations of institutions' policies or regulations, whether or not such violations are also violations of law, and whether or not proceedings are or have been pending in the courts involving the same acts. If, as a result of an official appeal, it is determined that the student was improperly disciplined, the Provost shall, if requested by the student, have a record of the hearing sealed, and have any reference to the disciplinary process removed from the student's record. In such cases, the record of the hearing may be used only in connection with legal proceedings.

Whether or not a hearing is conducted, the institution may provide written notice to a student that his or her alleged behavior may have violated institution policy or regulations and that, if repeated, such behavior will be subject to a disciplinary process. Evidence of prior alleged behavior as detailed in the written notice may be presented in a subsequent

disciplinary action. When a student is found in violation of institution policies or regulations, any of the following types of student disciplinary action may be imposed. Any sanction imposed should be appropriate to the violation, taking into consideration the context and seriousness of the violation.

1. **Warning/Censure:** Written notice or reprimand to the student that a violation of specific institutional policies or regulations has occurred and that continued or repeated violations of institution policies or campus regulations may be cause for further disciplinary action, not necessarily in the form of disciplinary probation, and/or loss of privileges and exclusion from activities, suspension, or dismissal.
2. **Disciplinary Probation:** A status imposed for a specified period of time during which a student must demonstrate conduct that conforms to institution standards. Misconduct during the probationary period or violation of any conditions of the probation may result in further disciplinary action, normally in the form of suspension or dismissal.
3. **Loss of Privileges and Exclusion from Activities:** Exclusion from participation in designated privileges and activities for a specified period. Violation of any conditions in the written Notice of Loss of Privileges and Exclusion from Activities, or violation of institution policies or campus regulations during the period of the sanction may be cause for further disciplinary action, normally in the form of probation, suspension, or dismissal.
4. **Suspension:** Termination of student status at the Institution for a specified period of time with reinstatement thereafter, provided that the student has complied with all conditions imposed as part of the suspension and provided that he or she is otherwise qualified for reinstatement. Violation of the conditions of suspension or of institution policies or regulations during the period of suspension may be cause for further disciplinary action, normally in the form of dismissal.
5. **Dismissal:** Termination of student status for an indefinite period. Readmission after dismissal may be granted only under exceptional circumstances.
6. **Restitution:** A requirement for restitution in the form of reimbursement may be imposed for expenses incurred by the institution or other parties resulting from a violation of these policies. Reimbursement may take the form of monetary payment or appropriate service to repair or otherwise compensate for damages. Restitution may be imposed on any student who alone, or through group or concerted activities, participates in causing the damages or costs.
7. **Revocation of Awarding of Degree:** Subject to the concurrence of the Board of Directors, revocation of a degree obtained by fraud.

Anti-Hazing Policy

Alen South Lake University does not tolerate hazing. Hazing is prohibited at any University recognized or sanctioned organization, student, or other person associated with an organization operating under the sanction or recognized by the University. Organizations or individuals found responsible for hazing under this policy, whether it occurs on or off campus, may be subject to disciplinary action by the university, and may also face criminal charges under state law.

Students' Rights

Alen South Lake University disciplinary proceedings under the Student Conduct Code, including cases involving general misconduct and academic misconduct, students have the following rights to confidentiality and due process.

Right to Confidentiality

Any student involved in a university disciplinary proceeding has the following rights related to privacy and confidentiality:

- All disciplinary proceedings are closed to the public.
- Alen South Lake University, except as required by law, will not disclose information to anyone not connected with the proceeding. The fact that there is or has been a disciplinary proceedings concerning the incident may be disclosed. However, the identity(ies) of individual students involved in the proceedings will not be disclosed.
- Alen South Lake University, including individuals involved in a disciplinary processing, will disclose the results of the processing, including sanctions imposed only to those who need to know for purposes of record keeping, enforcement of the sanctions, further proceedings, and eligibility for participation in certain University activities, or compliance with Federal or State laws. The fact that a disciplinary proceeding has been concluded and appropriate action has been taken may be disclosed.

Rights to Due Process

Respondent: A student accused of violating the Student Conduct Code (the "respondent") has certain rights.

These include the right to:

a. Be advised that a complaint is being investigated and be advised of the nature of the complaint.
b. Be advised of the charges under the Student Conduct Code that are being filed.
c. Submit a written account relating to the alleged incident and/or charges.
d. Have a person of choice, including an attorney, present throughout any meeting related to the disciplinary proceeding.
e. Know the identity of individuals who will be presented at meetings or hearings related to the proceeding.
f. Present relevant evidence and/or witnesses.
g. Review any evidence reasonably likely to be used in the proceeding.
h. Hear and question any witnesses who participate in the proceeding.
i. Have a reasonable period to prepare for a hearing.
j. Request a delay of a hearing for exceptional circumstances.
k. Decline to make statements.
l. Timely adjudication and resolution of the case.

Complainant: A student who brings a complaint against another student under the Student Conduct Code (the "complainant") also has certain rights.

These include the right to:

a. Meet with the designated administrative official to discuss the disciplinary process.
b. Submit a written account of the incident and a statement describing the effect of the alleged misconduct.
c. Have a person of choice, including an attorney, present throughout any and all of the proceedings.
d. Be informed of the location of any meetings related to the disciplinary proceedings.
e. Be informed immediately of the outcome of each step of the disciplinary proceeding.
f. Have past conduct that is irrelevant to the case not discussed during the proceedings.

Grievance procedure

Any student who believes that an action taken on behalf of the Institute adversely affected the student's status, rights, or privileges has the right to start a grievance procedure that will allow them to access an equitable process to resolve such grievance.

To start the procedure, students must first communicate the grievance in writing to the appropriate professor (or administrative representative, if applicable). The Alen South Lake University staff member will have one calendar week to review and respond to the student

in writing. In case the student is dissatisfied with the response to the grievance, or if the preceding staff member is unable to respond to the grievance, then the matter is escalated to the Provost. The Provost will have one week to review and respond to the grievance.

In case the student is dissatisfied with the Provost's response to the grievance, or if the Provost is unable to respond to the grievance, then the matter is escalated to the Academic Council. The Academic Council will have one week to review and respond to the grievance.

In case the student is dissatisfied with the Academic Council's response to the grievance, or if the Academic Council is unable to respond to the grievance, then the matter is escalated to the institution President. The institution President will take the necessary steps to resolve the grievance. If the student is dissatisfied with the Academic Council's response to the grief, the Academic Council is unable to respond to the grievance, then the matter is escalated to the institution's President. The institution's President will take the necessary steps to resolve the grievance.

In case the student is dissatisfied with the institution's President's response to the grievance, or if the institution's President is unable to respond to the grievance, then the matter is escalated to the Board of Directors. All decisions of the Board of Directors will be final with regard to the institution's position on the grievance. In case the student is dissatisfied with the Board of Directors' response to the grievance, then the student may refer it to: Commission for Independent Education Florida Department of Education 325 West Gaines Street, Suite 1414 Tallahassee, FL 32399-0400, Phone #: 1-888-224-6684 (Toll Free).

Family Educational Rights and Privacy Act (FERPA)

Federal and State laws restrict the release of confidential student records and information. Students have a right to inspect their educational records and are protected from releasing information without their written consent, except for subpoenaed requests from courts that must make with appropriate jurisdiction. Students must make written requests for transcripts and other academic information. Requests by unauthorized third parties and telephone requests will not be honored.

ADMISSION REQUIREMENTS

Alen South Lake University is dedicated to attracting students who are committed to academic excellence and professional growth. The university seeks individuals with the drive and potential to earn a degree aligned with their chosen career path and aspirations. Applications are reviewed on a rolling admissions basis.

ACADEMIC DOCUMENTS AND EVALUATION POLICY

Academic Documents Required for Admission:

- **Official Transcripts:** Official transcripts from all institutions attended must be sent directly to Alen South Lake University.
- **Certified and Notarized Records:** Applicants may submit certified and notarized records from foreign institutions. However, the University may require that such transcripts be sent directly from the issuing institutions.
- **Ownership of Credentials:** Once credentials are submitted to the Department of Admissions, they become the property of Alen South Lake University and will not be returned.

Evaluation Policy:

If the applicant has academic credentials (such as degrees or diplomas) from institutions outside the United States, the applicant must have them evaluated by a recognized credential evaluation service. Approved services include:

- World Education Services (WES)
- Educational Credential Evaluators (ECE)
- SpanTran
- Any current member of the National Association of Credential Evaluation Services (NACES)

The evaluation must be a course-by-course evaluation and include a grade point average (GPA) calculation. For more information on approved evaluation agencies, visit the official NACES website: https://naces.org/members/

English Translations:

If the applicant's academic documents (such as diplomas, transcripts, or course syllabi) are not in English, the applicant must: a) Have them officially translated into English by a certified translator, and b) Submit both the original documents and the certified English translations together for evaluation by an approved credential evaluation service.

The applicant is responsible for covering the cost of the professional evaluation and any required translations.

ADDITIONAL ADMISSION REQUIREMENTS

1. **Enrollment Agreement:** Completed and signed by all parties involved. If the student is under 18 years old, a parent or guardian must also sign.
2. **Photograph:** A passport-type photograph (digital) must be submitted.
3. Identification: A copy of the official identification must be provided.
4. **Additional Documentation for Admission to a Bachelor's Program:** a) High school diploma or General Education Development (GED) certificate, and b) Official transcripts of courses and grades. **Applicants with a GED must submit a copy of the official GED certificate, or documentation demonstrating that the applicant has passed a state-authorized examination that the state recognizes as the equivalent of a high school diploma.*
5. **Additional Documentation for Admission to a Master's Program:** a) Bachelor's degree, and b) Official transcripts from the institution where the bachelor's degree was awarded.

ADMISSION PROCESS OVERVIEW

The applicant must submit all required documentation to admissions@aslu.education for review.

Conditional Status

As part of the admission process, applicants must submit all required documentation to meet degree requirements. If an applicant meets the academic requirements of the program, but does not have all documents available at the time of application, he or she will be granted conditional status. With conditional status, the applicant is considered a "Non-Degree Seeking Student," but may begin taking the first course, and must submit all missing documents within 30 calendar days, and no later than 45 days from the date the conditional status is granted. If the applicant does not submit the required documentation within the established period, he/she will not be admitted and his/her application will be automatically canceled. With this status, he/she will be allowed to finish the course in which he/she is enrolled, receive the corresponding grades and, once obtained, he/she will be withdrawn from the university.

Non-Degree Seeking Students

Non-degree seeking (NDS) students enroll in individual courses for personal or professional development without pursuing a degree. NDS students follow a simplified application

process for admission but are not eligible for institutional scholarships. To be admitted, applicants must indicate their intent on the application and provide evidence of sufficient academic background or relevant work experience to ensure success in their chosen course(s).

Applicants who do not hold a high school diploma or GED are ineligible for admission as NDS students. NDS applicants wishing to take graduate-level courses without a bachelor's degree must demonstrate substantial work experience related to the discipline of the course(s) requested and must receive approval from the Provost prior to acceptance. To demonstrate substantial work experience in the course discipline, the NDS student can provide a CV/resume, employment verification letters, certificates, or a professional portfolio. All documents must be translated into English if originally in another language.

Credits earned as an NDS student are not guaranteed to apply toward a degree program at Alen South Lake University (ASLU) and may not be transferable to other institutions, as ASLU operates under a license from the Florida Department of Education and is not currently accredited. NDS students are limited to a maximum of six credit hours per term (two courses).

If a course requires prerequisites or co-requisites that have not been met, the student must obtain Provost approval before registering. Should an NDS student later decide to pursue a degree, completed NDS courses may be considered for transfer. Students transitioning to degree-seeking status must meet all standard admissions requirements for their chosen program.

Pending Evaluation

Once an applicant has submitted all the required documents and only the evaluation is pending, the applicant will receive an invitation to sign the Enrollment Agreement (digital). The applicant must sign it promptly after having reviewed the document and agreeing to the established clauses. Once the University receives the evaluation/validation of the prior education degrees and grades from the authorized entity, we will provide the applicant with the Official Acceptance Letter along with the Student Handbook.

Transfer Opportunities

Alen South Lake University welcomes students who wish to transfer from other colleges or universities. The university is committed to forming strategic partnerships with other institutions to support academic and research advancement.

Transfer Admission Requirements

- Transfer students must meet all standard admission requirements for their intended program.
- Students are encouraged to consult with an academic advisor before enrolling, especially if they have questions about course equivalency.

Transfer Credit Policy

A maximum of 15 credit hours may be transferred into any Bachelor's, or Master's degree program at Alen South Lake University.

Transfer credits must:

- Be earned at a postsecondary institution.
- Be relevant and applicable to the student's selected program at Alen South Lake University.
- Be evaluated and approved on a course-by-course basis.
- Have a grade of "C" or higher (or its equivalent).

Please note that transfer credit approval is at the sole discretion of Alen South Lake University. There is no guarantee that courses from another institution will be accepted.

Transfer to another institution

Alen South Lake University recognizes the rights of each institution to accept the transfer of credit. Therefore, acceptance of a transfer is at the discretion of the accepting institution, and it is the student's responsibility to confirm if credits will be accepted by another institution of the student's choice.

Transfer Credit for Military and Educational Experience

Alen South Lake University recognizes and values the educational experiences gained through military service. The university may award transfer credit based on recommendations from the American Council on Education (ACE), as outlined in its Guide to the Evaluation of Educational Experiences in the Armed Services.

Key Guidelines:

- Credit will only be granted if it is relevant to the student's chosen degree program.
- In most cases, military credit cannot be applied toward general education requirements.
- Vocational or technical training recommended by ACE is reviewed and considered under the same criteria as non-military credit sources, with similar limitations.

All military and experiential learning credits are subject to review and approval by Alen South Lake University to ensure alignment with academic standards and program objectives.

Professional Experience Credit Policy

Alen South Lake University does not recognize credit from work experience.

Transient Students

Transient students are individuals enrolled at another institution who wish to take courses at Alen South Lake University (ASLU) temporarily. These students should be aware of the following policies:

- Transient students are not eligible to earn a degree or certificate from ASLU.
- Some ASLU courses may have prerequisites or co-requisites. It is the student's responsibility to ensure they meet these requirements prior to enrollment.
- After completing coursework at ASLU, students must request an official transcript to be sent to their home institution. A transcript fee will apply.

Application Requirements for Transient Students

To enroll, transient students must:

1. Complete the Enrollment Agreement and meet any specific requirements for the course(s) they wish to take. This form can be submitted by email or mail to the Admissions Department.
2. Submit an official transcript from their current institution.
3. Pay a non-refundable application fee of $150.

ASLU will review and respond to the application within 15 business days.

Non-Discrimination Policy

Alen South Lake University is committed to providing equal educational and employment opportunities to all. The university does not discriminate on the basis of race, color, national or ethnic origin, age, religion, disability, sex, sexual orientation, gender identity or expression, or any other characteristic protected by applicable federal or state law.

Faculty, staff, and students are admitted, employed, and treated fairly and equitably in all university programs, policies, and activities.

Discriminatory and Sexual Harassment Policy

Alen South Lake University is dedicated to fostering a safe and respectful environment where students, faculty, and staff can freely exchange ideas and grow academically and professionally. To uphold this standard, the university strictly prohibits all forms of discriminatory and sexual harassment. ASLU has established clear policies and procedures for reporting, investigating, and resolving complaints related to discrimination or harassment. Anyone who believes they have experienced or witnessed harassment or discrimination is encouraged to report the incident immediately through the appropriate university channels.

Course Cancellation, Drop, and Withdrawal Policy

Students should be aware that all courses are subject to change or cancellation by Alen South Lake University. Understanding the types of course changes is important, especially regarding financial impact:

1. **University-Canceled Courses:** If ASLU cancels a course, students may transfer to another course within their program at no additional cost.
2. **Student-Initiated Course Cancellation:** Students who wish to cancel a course must submit their request at least one day before the course registration deadline. No cancellation fees will be charged.
3. **Dropped Courses (within first 3 days):** If a student drops a course within the first three days of class, the course will not appear on the transcript, and no cancellation fees apply.
4. **Extemporaneous Cancellation (after 3 days):** Courses dropped after the first three days are marked as "Canceled" on the student's record. These courses do not impact GPA, but are subject to cancellation fees.
5. **Frequency Limit:** Students may cancel, drop, or extemporaneously cancel courses no more than twice within a 10-month period.

Drop/add Period

The Drop/add period is during the first week of the academic period.

Program Disclosure: Avocational, Exam Preparation, Contract Training, Continuing Education, and Professional Development Programs

Form 303 | Section 1005.335, Florida Statutes | Rule 6E-2.004, Florida Administrative Code

Effective February 2024

In compliance with Section 1005.335 of the Florida Statutes and Rule 6E-2.004 of the Florida Administrative Code, all programs offered by licensed institutions—including but not limited to avocational programs, examination preparation programs, contract training, continuing education, and professional development programs—must be disclosed to the Commission for Independent Education.

Alen South Lake University affirms that it has complied with these requirements by submitting Form 303 to the Commission. This submission includes all applicable non-degree programs offered by the university, such as:

- Avocational Programs
- Examination Preparation Programs
- Contract Training Programs
- Continuing Education Programs
- Professional Development Programs

This disclosure ensures transparency and adherence to Florida state regulations regarding non-degree program offerings.

Finances

Tuition Rates

- Bachelor's Programs: $100.00 per credit
- Master's Programs: $150.00 per credit

Payment is due at the time of registration. Students pay tuition in advance every two months for the courses they plan to take.

Required Fees

Fee Type	Amount (USD)
Registration Fee (non-refundable)	$50.00
Library & Research Resources Fee	$100.00
Technology & Online Servicee Fee (per period)	$50.00
Change of Program Fee	$100.00
Incomplete Course Fee	$100.00
Course Repeat Fee	$270.00
Graduation Fee	$410.00
Official Transcript (per copy)	$30.00
Replacement Diploma (US-based student)	$100.00
Replacement Diploma (outside of the US student)	$200.00
Returned Check Fee	$50.00

Technology & Online Services Fee: Covers LMS (learning management system) access, communications tools, and technical support.

Library & Research Resources Fee: Includes access to academic databases, research articles, electronic books, librarian support, and advanced research tools.

Total Program Cost Breakdown

DEGREE	PROGRAM NAME	TOTAL CREDITS	TOTAL COURSES	CREDIT RATE	TOTAL TUITION
MASTER'S	MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE	39	12	$ 150.00	$ 5,850.00
MASTER'S	MASTER OF SCIENCE IN BUSINESS ANALYTICS	33	11	$ 150.00	$ 4,950.00
MASTER'S	MASTER OF SCIENCE IN DIGITAL MARKETING	33	10	$ 150.00	$ 4,950.00
MASTER'S	MASTER OF SCIENCE IN ENTREPRENEURSHIP	39	12	$ 150.00	$ 5,850.00
MASTER'S	MASTER OF SCIENCE IN ONLINE EDUCATION	36	10	$ 150.00	$ 5,400.00
MASTER'S	MASTER OF SCIENCE IN CYBERSECURITY	39	12	$ 150.00	$ 5,850.00
BACHELOR	BACHELOR OF SCIENCE IN COMPUTER SCIENCE	120	40	$ 100.00	$ 12,000.00
BACHELOR	BACHELOR OF SCIENCE IN MANAGEMENT	120	40	$ 100.00	$ 12,000.00

Disclosure: The total program cost reflects no scholarships or financial aid. Eligible students may apply for financial assistance or scholarships to reduce costs.

Accepted Payment Methods

Alen South Lake University accepts the following forms of payment:

- Personal checks payable to Alen South Lake University (Note: Returned checks incur a $35.00 fee)
- Credit cards (Visa & MasterCard)
- Online payments from bank accounts or credit cards
- Money orders or cashier's checks sent by registered mail to the university's accounting office (must be received before the due date)
- Zelle and Venmo

Payment is required before the start of each course (every two months).

Payment Options

Students may choose one of the following:

1. Pay in full: Total tuition and fees paid at the time of enrollment
2. Installment Plan:
   - Pay for two courses at the time of enrollment
   - Set up a bi-monthly payment plan for the remaining balance
   - Full balance must be paid before graduation

Financial Aid & Scholarships

Alen South Lake University is a private, state-licensed institution and not accredited; therefore, students are ineligible for federal aid under Title IV, including loans or grants.

The University offers limited institutional financial assistance through need-based scholarships or tuition reductions, awarded by the Financial Aid Committee based on financial need, academic standing, and available funds. Awards are non-transferable and contingent on maintaining satisfactory academic progress.

Loan Disclosure: The University does not offer or manage loan programs. Students who secure private loans independently are fully responsible for repayment terms, amounts, and schedules set by their lender.

Late Payment Policy

Payments not received by the due date will be considered late. A $50.00 late fee will be charged for each late payment.

Textbooks and Course Materials

Alen South Lake University does not provide or charge for textbooks and materials. Each course syllabus lists the required materials, and students are responsible for obtaining them.

Tuition and Fees Refund Policy

If a student is not admitted or cancels within the first week of signing the Enrollment Agreement, all payments except the non-refundable registration fee will be refunded.

Refund Schedule (after the first week):

1. Withdrawal during Week 1: 100% refund of tuition (excluding registration fee)
2. Withdrawal during Week 2: 40% refund
3. Withdrawal during Week 3: 10% refund
4. Withdrawal during Week 4: 0% refund

Refunds are calculated based on business days (Monday–Friday). Weekends and official holidays are excluded.

Note: Alen South Lake University does not participate in Title IV federal financial aid programs and does not offer benefits for students or veterans under those programs. If the university becomes Title IV eligible in the future, it will publish a federal aid refund policy in the appropriate section for student and public reference.

Drop/Add and Refund Policy

Cancellation and Settlement Policy: Students may cancel their enrollment within five (5) calendar days after signing the Enrollment Agreement, provided written notice is submitted to the university. If cancellation is made within this time and before the start of classes, all tuition and fees paid (including the registration fee) will be fully refunded within 30 days of receiving the cancellation notice.

Note: *This policy does not apply if the student has already begun classes.*

Refund Policy

Students choosing to pay tuition on a monthly payment plan must complete payments for the entire semester before being allowed to register for future terms.

If a student drops a course or withdraws from the university, they must complete and submit the appropriate Drop/Add or Withdrawal Form to the Registrar's Office. All refunds are processed according to the following schedule:

Refund Schedule

1. **Full Refund:** If cancellation occurs within five (5) calendar days of signing the Enrollment Agreement and making the first payment—100% of tuition and fees will be refunded.
2. **Before Classes Begin:** Cancellations made after the third (3rd) business day but before the first day of class will receive a full refund of all monies paid, excluding the non-refundable registration fee.
3. **Drop/Add Week (First 5 Days of Class):** a) Students who drop courses within the first five days of class (Drop/Add period) are eligible for a tuition refund. b) No refunds will be issued after the Drop/Add week.
4. **If Enrollment is Not Accepted:** If the university does not accept the student's enrollment, all monies paid will be refunded.
5. **Class Cancellation by University:** If a course is canceled by the university, students are entitled to a full refund for that course.
6. **Disciplinary Withdrawal:** If a student is withdrawn due to disciplinary action, refunds will follow the same schedule as above.
7. **Refund Timeline:** All eligible refunds will be processed within 30 days of official withdrawal, termination, or cancellation notice.
8. **Notice of Cancellation:** To officially cancel enrollment, students must submit written notice either in person or via certified mail.

STUDENT SERVICES

The Student Services program at Alen South Lake University complements the Academic Programs and supports students' personal, academic, and career development. Services include academic and personal advisement, financial advisement, assistance with course registration, inquiries about online course offerings, completion of administrative forms, employment placement support, access to library resources, and more.

LIBRARY SERVICES

At Alen South Lake University, students have access to eLibro and other reputable resources to promote rigorous academic activity and research. The ASLU library is a space for work and interaction between professors and students, in order to strengthen the work of research and academic exploration.

Students will find a space with informative resources that will help them manage important information for the completion of their classes. The resources are freely accessible and usable; if students have any questions, they can contact the librarian at library@aslu.education.

Among the services that students will find in the ASLU Library are:

- Electronic resources with 24-hour access
- Professional Development
- Advice and Reference
- Institutional Repository

ACADEMIC ADVISING

Alen South Lake University offers a continuum of services and resources to support students from the time they become a student until the time they graduate and beyond. These services provide the opportunity for development by helping them explore careers and personal goals, and by facilitating a smooth and supportive progression into any of our academic programs.

CATALOG AVAILABILITY

The University Catalog is also available online at the University website: www.alsu.education

STUDENT HANDBOOK

The Student Handbook, available at the time of registration, contains information and details about the university, the availability of courses according to degree programs,

admissions, enrollment, books and materials, regulations, complaints or concerns, graduation requirements, grievance procedures, library access, refund policy, students' rights, responsibilities and sanctions, transcripts, transfers, and course changes.

CAREER SERVICES

Alen South Lake University reserves the right to assist in the placement of graduates with employment opportunities as they become available. This is done through preparation, advising, submitting grade transcripts, and, when needed, recommendation letters written by professors willingly. The service may disclose information relating to the market and job availability. Alen South Lake University does not and cannot guarantee job placement.

TECHNICAL SUPPORT

The university has a solid and modern technological infrastructure, designed to support the academic and administrative needs of both students and teaching and administrative staff.

The ASLU Virtual Campus https://lms.alensouthlakeuniversity.online is implemented on a robust virtual server that hosts version 4.2 of Moodle. This server is configured to ensure high performance, security, and availability, allowing users to access online educational resources efficiently. The choice of a virtual server allows scalability and flexibility in resource management, adapting to the growing needs of the university.

In administrative management, the university uses Google Workspace as its cloud solution. This set of tools allows efficient collaboration between staff members and students, providing services such as Gmail, Google Drive, Google Docs, and Google Meet. The integration of Google Workspace with Moodle facilitates the exchange of information and collaboration on academic projects, as well as the management of institutional documents and calendars.

Website https://aslu.education/

The university's website is built and managed with WordPress, one of the most popular and flexible content management platforms (CMS). WordPress allows the university to maintain a professional and up-to-date online presence, facilitating the publication of news, events, and resources for students, academic staff, and visitors.

INSTRUCTION METHOD

Delivery: Online

Alen South Lake University is aware that adequate online instruction allows for the effective achievement of educational goals. It is important to maintain that the student will have a

space to reflect and acquire knowledge from the materials, interaction with the instructor, and the learning community.

The online platform will allow these interactions to be more flexible. It is important to note the following criteria:

- The instructor is knowledgeable about online instruction technology and can help students who have any problems.
- The virtual classroom will find relevant information for scheduling activities, facilitators, support material, list of participants, evaluations, activities, and other information by phase.
- The delivery of activities must be carried out according to the established schedule and with the constant attention of the teachers.

The flexibility offered by virtual studies is that it is not necessary to attend a classroom; however, online forums or conferences can be established when the teachers consider it appropriate, at a predetermined fixed time, one day a week at most. The student can carry out studies at home or at their workplace, anywhere in the world.

Learning platform

LMS - Moodle 5.0.1

Moodle is the core of the university's online educational infrastructure. Version 5.0.1 of Moodle offers a number of improvements to the user experience, including a more intuitive interface, advanced learning analytics tools, and customization options that allow instructors to adapt courses to the specific needs of students.

STUDENT RECORDS

Alen South Lake University keeps a record for each student, translated into English and containing the following:

- Academic transcript
- All documents evidencing a student’s eligibility for enrolled programs
- Any certificates or diplomas earned
- Copies of applications or contractual agreements
- Financial records
- Student agreements or advising records
- Records of progress

All documents received from students become property of Alen South Lake University and are kept permanently in our files.

STUDENT FINANCIAL ASSISTANCE

Alen South Lake University can provide financial guidance to students that are having financial difficulties and want to withdraw from the program. This advice consists of options for how to meet their goals offering payment plans.

UNIVERSITY LEADERSHIP

Statement of Legal Control

Alen South Lake University is a domestic For-Profit institution created in the State of Florida. Its corporate name is ALEN University Inc. It is regulated by the Commission for Independent Education (CIE) of the Florida Department of Education, under the license number 10264. Alen South Lake University is owned and operated by ALEN UNIVERSITY INC.

BOARD OF DIRECTORS

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President

Everly Henao Villada

Vice President

UNIVERSITY ADMINISTRATION

Dr. Alvaro Enrique Sanchez Castro

President

Dr. Jorge A. Pazmiño

Vice President for Academic and Student Affairs – Provost

Everly Henao Villada

Provost for Operations and Administrative Affairs

Tatiana Medina Hernandez

Director of Admissions and Student Services | University Registrar

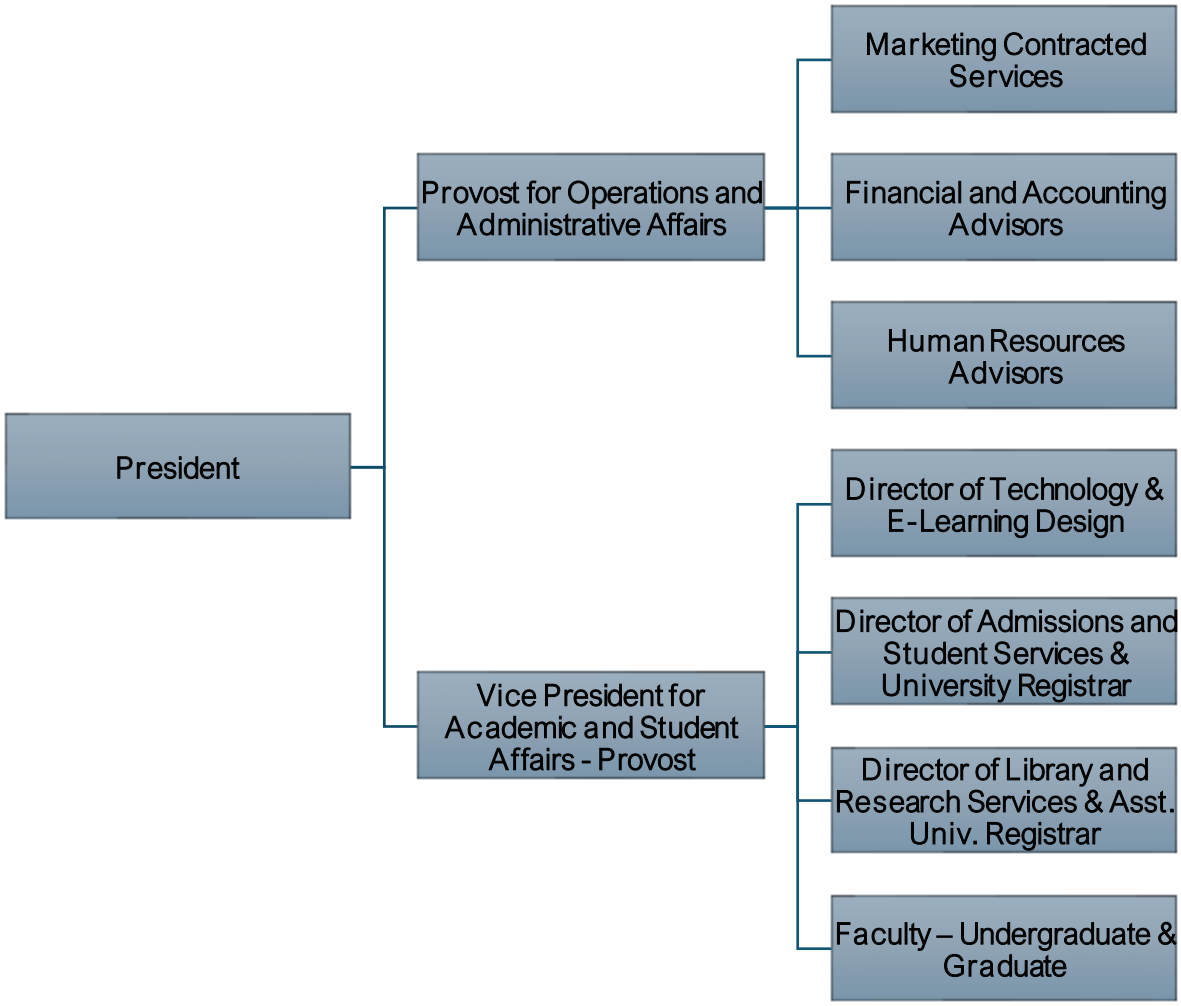
Javier Sain Osorno Aguirre

Director of Technology & E-Learning Design

Yuly Katerine Bermudez Sabogal

Director of Library and Research Services & Asst. Univ. Registrar

INSTITUTIONAL ORGANIZATIONAL CHART



ADMINISTRATION LISTING

Name	Degrees/Diplomas Held	Awarding Institution(s)
Sanchez Castro, Alvaro Enrique	-Doctor of Philosophy in Education -Master of Philosophy -Bachelor in Economics	-Universidad de Camagüey, Cuba -Incca University, Bogotá, Colombia -Universidad de Camagüey, Cuba
Pazmiño, Jorge A.	-Doctor of Philosophy in Leadership – Higher Education -Master of Science in Managing Information Technology -MBA -Bachelor's of Science in Business Administration -Graduate Certificate in Business and Marketing Analytics	-Bellarmine University, Louisville, KY, USA -Sullivan University System, Ft. Knox, KY, USA -Sullivan University System, Louisville, KY, USA -University of Louisville, Louisville, KY, USA -The University of Texas System, Permian Basin, TX, USA
Henao Villada, Everly	-Bachelor in Reeducative Pedagogy	-Luis Amigó University Foundation, Medellín, Colombia
Bermudez Sabogal, Yuly Katerine	-Bachelor in Information Science – Librarian -Associate in Nursing Assistance	-Pontifical Javeriana University, Colombia -Ingabo Institute, Colombia
Medina Hernandez, Tatiana	-Bachelor in Business Administration, Material and Financial Resources -Associate in Business Administration -Certification in Admissions and Student Services Processes	-Simón Rodríguez National Experimental University, Valencia Extension, Venezuela -CUAM – University College of Administration and Marketing, Venezuela
Osorno Aguirre, Javier Sain	-Bachelor in Software Engineering/Implementation and Development of Information Systems and Business Processes with Technological Systems -Fullstack Developer	-Antioquia Technological Institute, Colombia -Platzi, Colombia

FACULTY LISTING

Name	Degrees/Diplomas Held & Awarding Institution
Agudelo Velasquez, Leidy Johana	International Master's in Business Administration (MBA) European University of the Atlantic, Spain Master in Stretegic Management Iberoamerican International University, Puerto Rico Bachelor of Business Administration Minuto de Dios University Corporation, Colombia
Alvarez Feliz, Maritza	Doctor of Education (Ed.D.) in Instructional and Organizational Leadership Nova Southeastern University, FL, USA Master of Science in Education Nova Southeastern University, FL, USA Bachelor of Arts in Early Childhood Education Santo Domingo Catholic University, Dominic Republic
Amador, Edward Jim	Doctor of Education and Leadership (ABD) St. Thomas University, FL, USA Master of Science, Executive Management St. Thomas University, FL, USA Bachelor of Science, Organizational Leadership St. Thomas University, FL, USA Associate of Science, Cybersecurity St. Petersburg College, FL, USA Associate of Science, Business Administration and Management St. Thomas University, FL, USA
Atencio Bravo, Eduardo Alfonzo	Doctor of Philosophy (Ph.D.) in Sciences with Specialization in Management Dr. Rafael Belloso Chacín University, Maracaibo, Venezuela Master of Sciences in Teaching for Higher Education Rafael María Baralt National Experimental University, Cabimas, Venezuela Bachelor's Degree in Education Rafael María Baralt National Experimental University, Ciudad Ojeda, Venezuela
Areiza Padilla, Jose Andres	Doctor of Philosophy (Ph.D.) in Marketing University of Valencia, Spain Master's in Marketing Autonomous University of Barcelona, Spain

	Master's in Corporate and Advertising Communication Complutense University of Madrid, Spain Bahelor's of Science in Business Administration Pontifical Javeriana University, Colombia
Berríos Rivera, Luis Aden	Doctor of Instructional Design and Distance Learning Nova Southeastern University, FL, USA Master in Arts in Education with Specialization in Science Teaching Interamerican University, Puerto Rico Bachelor of Arts in Secondary Education with Concentration in Natural Sciences University of Puerto Rico, Puerto Rico
Capriles, Gonzalo	Master in International Business Administration Nova Southeastern University, FL, USA Master of Science in Engineering University of California, CA, USA Bachelor of Science in Industrial Engineering Andres Bello Catholic University, Venezuela
Castellanos Saavedra, Martha Patricia	Doctor of Education Nova Southeastern University, FL, USA Master of Arts in Communication – Marketing Concentration University of Strathclyde, Scotland Bachelor of Science in Economics University of the Rosario, Colombia
Castro Maldonado, John Jairo	Doctor of Philosophy (Ph.D.) in Education Benito Juarez University, Mexico Master of Science in Electrical Engineering University of Pamplona, Colombia Bachelor of Science in Electrical Engineering Francisco de Paula Santander University, Colombia
Cuesta Montanez, Jenny	Doctor of Philosophy (Ph.D.) in Education NOVA Southeastern University, FL, USA Master in Educational Informatics Sabana University, Colombia Bachelor's in Preschool Education Pedagogical and Technological University of Colombia, Colombia
Del Rio Ortiz, Rafael	MBA University of Phoenix, FL, USA MBA in Supply Chain Management & Logistics

	Ana G Mendez University, FL, USA Bachelor's Degree in Management Sacred Heart University, Puerto Rico
Fino Garzon, Diego Mauricio	MBA Antonio de Nebrija University, Spain Master's Degree in Innovation and Management EAN University, Colombia Bachelor's Degree in Information Science (Librarian) Javeriana Pontifical University, Colombia
Gómez Goitia, José Manuel	Doctor of Education (Ph.D.) Rafael María Barrat National Experimental University, Venezuela Master in Educational Information Dr. Rafael Belloso Chacín University, Venezuela Bachelor in Mathematics Education Specialization in Computer Science Francisco de Miranda National Experimental University, Venezuela
Lopez Velasquez, Anaylen Beatriz	Doctor of Philosophy (Ph.D.) in Education Rafael Maria Baralt National Experimental University, Venezuela Master of Science in Telecommunication Systems & Networks Dr. Rafael Belloso Chacin University, Venezuela Bachelor of Science in Computer Science & Engineering Rafael Urdaneta University, Venezuela
Morales Meneses, Mauricio	Master in Educational Institutions Administration Monterrey Instutite of Technology, Mexico Bachelor of Science in Systems Engineering Piloto University of Colombia, Colombia
Moreno Mahecha, Luz Eneida	Doctor of Philosophy (Ph.D.) in Financial Economics and Accounting San Pablo CEU University, Spain Master in Social Economy and Management of Non-Profit Entities University of Barcelona, Spain Master in Corporate Social Responsibility, Accounting, and Social Auditing University of Barcelona, Spain Bachelor of Science in Public Accounting Pontifical Javeriana University, Colombia
Nájera Acuña, Santiago	Doctor of Business Administration (Ph.D.) Pontifical Catholic University of Peru, Peru Master of Applied Statistics with R Software Antonio de Nebrija University, Spain

	Master in Operations Control and Logistics Management Higher Polytechnic School of the Litoral, Ecuador Bachelor's of Arts in Economics Pontifical Catholic University of Ecuador, Ecuador
Pazmiño, Jorge Armando	Doctor of Philosophy (Ph.D.) in Leadership – Higher Education Bellarmine University, KY, USA Master in Information Technology Management Sullivan University, KY, USA MBA Sullivan University, KY, USA Bachelor of Science in Business Administration University of Louisville, KY, USA
Quiñonez, Jesus Antonio	Master's Degree in Education University of La Sabana, Colombia Bachelor's Degree in Education with Concentration in Spanish & English Francisco Jose de Caldas District University, Colombia Certificate in Didactics of Scientific Research National Institute of Research and Continuing Training, Panama
Ramirez Franco, Maria Mercedes	Doctor of Competency-Based Education Mar de Cortés University Center, Mexico Master's Degree in Human Resources Management National Experimental Polytechnic University of the National Armed Forces, Venezuela Bachelor's Degree in Business Administration National Open University, Venezuela
Romero Santana, Emmanuel Lisandro	Doctor of Philosophy (Ph.D.) in Education University of the Americas and the Caribbean, Mexico Master's Degree in Educational Leadership, Management, and Emerging Technologies MIU City University Miami, FL, USA Master's Degree in Learning, Cognition, and Educational Development International University of La Rioja, Mexico Master's Degree in Neuroeducation CEU-Cardenal Herrera University, Spain Bachelor's Degree in Basic Education, Second Cycle, Mathematics and Natural Sciences Salome Ureña Higher Institute for Teacher Training, Dominic Republic

Tracanelli, Silvio	Doctor of Philosophy (Ph.D.) in Management Rafael Belloso Chacín University, Venezuela MBA Rafael Belloso Chacín University, Venezuela Bachelor of Science in Computer Engineering Simon Bolivar University, Venezuela
Sanchez, Alvaro Enrique	Doctor of Philosophy in Education Universidad de Camagüey. Habana, Cuba Master of Philosophy Incca University, Colombia Bachelor in Economics Universidad de Camagüey, Cuba

COURSES DESCRIPTIONS

BUA6021 Business Analytics 3c/h

Foundation to Business Analytics, using case studies and hands-on exercises that cover various business domains.

BUA6022 Visual Analytics 3c/h

Students learn about Visual Analytics; performing data analysis using BI visualization tools; applying principles of data visualization; best practices of data presentation and storytelling; dashboard creation techniques; hands-on experience building dashboards in BI.

BUA6023 Quantitative Marketing Research 3c/h

Critical investigation of quantitative marketing research methodology focusing on developing, collecting, analyzing, and reporting marketing decision-based data derived from survey data analyzed with electronic research software such as SPSS.

BUA6024 Predictive Analytics Modeling in Business and Economics 3c/h

Modeling tools and methods for predictive analytics for decision-making in business and economics.

BUA6025 Marketing Analytics 3c/h

Investigates and analyzes Big Data electronic databases via electronic software to create marketing information to enable informed marketing tactical and strategic plans.

BUA6026 Optimization and Simulation Models 3c/h

Application of optimization and simulation models in decision-making in a variety of business fields, such as management, marketing, accounting, and finance.

BUA6027 Integrated Business Simulation 3c/h

Decision-making simulation with large and diverse masses of real-world business data, covering all aspects of the operation of a business firm.

BUA6028 Human Resouce Analytics 3c/h

This course introduces human resources analytics, blending talent management with data analysis. Students will explore performance evaluation, talent retention, turnover, workforce planning, and diversity through hands-on data exercises. Using statistical tools, students will gain skills to analyze HR data, enabling informed personnel decisions to enhance HR efficiency.

BUA6029 Social Media & Web Analytics 3c/h

This course covers basic and advanced analytical tools, concepts, and techniques for understanding, visualizing, analyzing, and reporting social media and web data. This course develops necessary quantitative skills to help students solve complex problems on social media and the web domain.

BUA6030 Data Analytic Project Management 3c/h

Project in Business Analytics through which graduate students integrate functional knowledge acquired in courses through the completion of a consulting project, applied research project, or field study.

BUA6031 Business Analytics Capstone Project 3c/h

The Capstone Project offers a chance for students to dive deep into a specialized area within Business Analytics. This project gives the student the opportunity to apply what they've learned about how to make data-driven decisions to a real business challenges faced by global technology companies like Yahoo, Google, and Facebook. This project will focus on both research and practical application, drawing on personal interests and program of study. The goal is to bridge the gap between theoretical knowledge and real-world experience, aligning with our university's emphasis on invention. To successfully complete the project, they will need to demonstrate the ability to gather information, review current research, and conduct thorough background research to support original work.

CEN2051 Introduction to Engineering Design 3c/h

This course studies the representation or model of software that provides information about the structure of the data, architecture, interfaces. Its importance lies in the fact that it is from here that the quality of the software is extracted or established and relevant improvements can be made, if necessary, without invoking tests or the customer.

CEN2052 Computer Architecture 3c/h

This course presents students with the conceptual design and fundamental operational structure of a computer system through model practices and a functional description of the requirements and design implementations for various parts of a computer, with special interest in the way in which the central processing unit works internally and accesses the memory addresses.

CEN2053 Data Structure 3c/h

This course presents to the apprentices, methods and techniques applied to the organization, interrelation and operations that can be carried out to a set of elementary data.

CEN2054 Object-Oriented Programming 3c/h

This course presents the techniques and concepts that allow the resolution of problems through the use of models called objects that represent an abstraction of real life in them.

CEN2055 Professional Communication for Engineering 3c/h

This course introduces trainees to basic communication techniques for the management of projects, jobs and relationships in engineering related environments.

CEN4051 Statistics for Engineering Technology 3c/h

Statistical methods applicable to engineering, including theory and application of classical and nonparametric methods.

CEN4052 Logic Programming 3c/h

A language-independent programming course, teaching students programming concepts and logic without assuming any previous programming experience. Focuses on current languages providing code snippet examples and complete programs for each.

CEN4053 Data Communication and Networking 3c/h

This course teaches the design and implementation techniques essential for engineering robust networks. Topics include networking principles, Transmission Control Protocol/Internet Protocol, naming and addressing (Domain Name System), data encoding/decoding techniques, link layer protocols, routing protocols, transport layer services, congestion control, quality of service, network services, Software Defined Networks (SDNs), programmable routers and overlay networks, wireless and mobile networking, security in computer networks, multimedia networking, and network management.

CEN4054 Program Structure 3c/h

Achieve an understanding of fundamental data structures and algorithms and the tradeoffs between different implementations of these abstractions. Theoretical analysis, implementation, and application. Lists, stacks, queues, heaps, dictionaries, maps, hashing, trees and balanced trees, sets, and graphs. Searching and sorting algorithms.

CEN4055 Introduction and Implementation Mechanical Learning 3c/h

This course presents several fundamental concepts and methods for machine learning. The objective is to familiarize the audience with some basic learning algorithms and techniques and their applications, as well as general questions related to the analysis and management of large data sets. Several publicly available software libraries and data sets will be used to illustrate the application of these algorithms. Therefore, the application of the proposed techniques to the solution to real problems in the learner's environment will be emphasized.

CHE4033 Coaching and Mentoring 3c/h

This course explores adult development and learning theory, mentoring as well as coaching models and approaches such as Touchpoints, and current research on stages in teacher development. Students will study skills associated with effective mentoring and coaching including establishing trust in collaborative mentor relationships; assessing and addressing the needs of the protégé; assessing teaching skills through observation; conferencing and supporting professional goal planning; assessing early training that contributes to the development of early childhood professionals

CHE4035 Emotional Intelligence 3c/h

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

CHE6000 Evolutionary Coaching 3c/h

Evolutionary coaching is different from other coaching because of the values- based approach within a new psychological framework. We grow in stages of psychological development; we operate at levels of consciousness and we live inside cultural worldviews. Primary motivations tell you what stage of psychological development you have reached. Secondary motivations tell you what is blocking you, what conscientious and subconscious unmet needs you have and how they hold you back from finding your purpose and experiencing your potential. This course is about human emergence, about the impact of basic/growth needs dynamics on personal growth and mastering your life.

CHE6001 Coaching Techniques in Education 3c/h

Instructional coaching is a highly effective way to help teachers develop a reflective practice. Through this course, participants will learn how to differentiate coaching strategies to assist teachers at all stages of development to become more reflective and, in turn, make a bigger impact in the classroom. Participants will learn how to ask questions that encourage reflection, plan effective coaching sessions, and analyze videos of coaching in action.

CHE6002 Ethnicity and Diversity 3c/h

This course focuses on issues of diversity, oppression and ethnicity. It is designed to prepare students to be knowledgeable of people's biases based on race, ethnicity, culture, religion, age, sex, sexual orientation, social and economic status, political ideology, disability and how these contribute to discrimination and oppression. Students will learn about diverse cultures, family structure, roles, and immigration and assimilation experiences of marginalized groups. Students will also learn about the influence of the dominant culture on these diverse and marginalized (population at risk) groups.

CHE6003 Attention Management 3c/h

The purpose of this course is to raise awareness about the importance of attention in today's stimulus-rich environment and to argue for attention management as a fundamental technology literacy skill that needs to be integrated into technology and education. The course presents evidence about the costs of distraction and multitasking, reviews theoretical frameworks that explain the functioning of human attention and the possibility to train it, and introduces an empowering perspective for enabling students to master their own attention. A simple method for attention training is presented and data that validates the concept of integrating attention training into higher education is presented.

CHE6004 Project in Coaching in Online Education 3c/h

In this course, one will be required to complete a course project designed to strengthen their professional practice and extend their knowledge related to Coaching in Online Education. Using their own professional growth needs to guide topic selection and provide a meaningful connection to their teaching practice. Each stage of this project provides the opportunity for research, development, application, evaluation, and reflection. By sharing newly acquired expertise, one will endeavor to enhance practice that impacts student learning and achievement.

COR1011 Introduction to Online Education 3c/h

Online education is a form of education which is delivered and administered using the internet. In this course, students are going to learn that online education can be divided into several categories depending on the amount of online learning that is incorporated into the course, ranging from traditional face-to-face learning to blended learning to exclusive online courses. The difference between synchronous and asynchronous online learning and how each impacts the instructor and students is also addressed.

COR1018 Critical Thinking 3c/h

Critical thinking is the mental process used to evaluate the strength of an argument or the value of a claim. It is also used to decide on a course of action. Critical thinking is the ability to analyze and evaluate the consistency of reasoning. This course is a study of this process and a look at the different aspects that compose it, which seeks to enhance the ability to analyze and evaluate the consistency of reasoning.

COR1020 Learning Theories 3c/h

How does the brain learn, and how can we teach in a way that elicits the maximum potential of every student? Our brains are all different, from the genes that we inherit to the life experiences that change them. Should all students be expected to achieve the same level of competence in all subject areas, despite having dissimilar brain content? Which teaching activities, methodologies, and strategies best nurture the brain's natural way of learning? This is an introductory course on the basic principles, tenets, and instructional guidelines in the new academic discipline of Mind, Brain, and Education Science.

COR1021 Introduction to Computer Science 3c/h

This course is about the systematic study of feasibility, structure, expression and mechanization of methodical procedures or algorithms that underlie the acquisition, representation, processing, storage, communication and access to information.

COR1022 Thermodynamics 3c/h

This course deals with the fundamentals of Thermodynamics including thermodynamic systems and properties, relationships among the thermos-physical properties, the laws of thermodynamics and applications of these basic laws in thermodynamic systems.

COR1023 Discrete Math for Computer Science 3c/h

This course covers widely applicable mathematical tools for computer science, including topics from logic, set theory, combinatorics, number theory, probability theory, and graph theory. It includes practice of reasoning formally and proving theorems.

COR1024 Macroeconomics 3c/h

This course will provide an overview of Macroeconomics issues: the determination of output, employment, unemployment, interest rates, and inflation. Monetary and fiscal policies are discussed, as are public debt and international economic issues. We introduce basic models of Macroeconomics.

COR1025 Theory of Computing 3c/h

The goal of this course is to understand the fundamental limits on what can be efficiently computed in our universe and other possible universes. These limits reveal deep and mysterious properties of information, knowledge, and processing, as well as practical issues about what can and cannot be computed.

COR1026 Digital Logic 3c/h

In this course, digital logic is studied as a science of reasoning applied to electrical circuits that are the support of digital systems. It delves into the area of mathematics that is used in the field of electronics, distinguishing itself as the main support of the structure of computers.

COR1027 Human Computer Interaction 3c/h

This course provides an introduction to and overview of the field of human-computer interaction (HCI). HCI is an interdisciplinary field that integrates theories and methodologies from computer science, cognitive psychology, design, and many other areas. Course readings will span current theory and practice in interface specification, design and evaluation, as well as current and classic research papers in HCI.

COR1028 Human Resource Management 3c/h

This course examines the role, requirement and need of quality personnel management. Primary functions include, recruitment, training, compensation and disciplinary. It also explores how jobs not specifically tasked with Human Resource Management include activities related to HRM, from the manager and the subordinate point of view. Additional focus is included for HRM from a legal and a global standpoint.

COR1029 Brand Management 3c/h

In this course one will start by exploring the elements that make some brands great, why some brands garner premium consideration, and appropriately, how to improve a brand. One will work to create a great brand purpose and how to monitor the market to support the longevity of your brand by analyzing the impact of trends on your brand. Also assess and strengthen your brand's mission, vision, and values.

COR1030 Creativity & Innovation 3c/h

This course focuses on the creative process by introducing students to creative practice as a disciplined approach to problem solving and innovation requiring research, persistence and grit. Students will be encouraged to synthesize existing ideas, images, concepts, and skill sets in original ways, embrace ambiguity and support divergent thinking and risk-taking.

COR1031 Microeconomic 3c/h

This course will provide an overview of microeconomic issues: price determination, supply and demand. Of primary importance are the behavior of individuals/ households and firms and their impact on price, and the supply and demand for goods and services. We introduce basic models of microeconomics.

COR1032 Coaching & Leadership Skills 3c/h

This course introduces students to understand the role and importance of coaching for success. Clarify what coaching is and learn how to structure coaching; tools like brainstorming, check-ins, effective use of time, and problem-solving.

COR1124 Linear Algebra 3c/h

This course covers matrix theory and linear algebra, emphasizing topics useful in other disciplines. Linear algebra is a branch of mathematics that studies systems of linear equations and the properties of matrices. The concepts of linear algebra are extremely useful in physics, ecosystems and social sciences, natural sciences, and engineering.

COR3021 Programming Abstractions 3c/h

The course will focus on teaching problem solving skills, basic abstract data types, and recursion. General topics include basic programming methodology (engineering, modularity, and documentation), data abstractions (stacks, queues, linked lists, hash tables, binary trees, generics and templates), recursion (procedural, back stacking), searching and sorting, and basic algorithmic analysis (including Big-Oh notation).

COR3022 Analytic Geometry and Calculus 3c/h

This course is devoted to the study of elementary analytic geometry, functions, limits, continuity, derivatives, antiderivatives, and definite integrals.

COR3023 Technology Project Management 3c/h

The purpose of this course is to assist the I/T professional in understanding the components of complex projects, manage those project components, form and lead a project team. Project Management tools and techniques will be introduced and discussed.

COR3024 Optimization 3c/h

Optimization is the problem of making decisions to maximize or minimize an objective in the presence of complicating constraints. The class will take one on a journey through the theory, methods, and application of linear programming, integer programming, Markov chains, and Markov decision processes.

COR3025 Calculus 3c/h

This course creates a flexible approach to both theory and modeling. It includes a variety of problems and examples from the physical, health, and biotechnological sciences, engineering and economics; emphasizing the connection between calculus and other fields.

COR3026 General Physics 3c/h

General Physics is intended to provide one with a fundamental understanding of the laws of physics with applications to our everyday life and their major. This course also serves to develop cognitive and analytical skills, which can be applied to all majors

COR3027 Entrepreneurship Project 3c/h

This course is designed to introduce students to the concept of entrepreneurship. Students will acquire the knowledge of the nature and scope of entrepreneurship and understand the impact of entrepreneurship on market economies. Students will develop a project including personal traits and behaviors to become a successful entrepreneur.

COR3028 Corporate Finance 3c/h

This course will provide in-depth knowledge about the theory and practice of corporate finance. It outlines the processes and applications of corporate finance in detail. It gives an essential guide for those who wish to pursue this discipline further.

COR3029 Data Analytics 3c/h

An introduction and overview of information resources commonly used in business, including secondary and syndicated data resources. The focus of the course is enabling students to identify, locate, analyze, and report on business data sources both qualitatively and quantitatively.

COR3030 Accounting I 3c/h

This course is a study of the underlying theory and application of managerial accounting concepts. It emphasizes application and utilization of accounting principles in business entities. The areas of costs, business management, budgeting, cost reporting and controls, as well as specialized internal reports, are covered.

COR3031 Introduction to Statistics 3c/h

This is an introductory course in statistics intended for students in a wide variety of areas of study. Topics discussed include displaying and describing data, the normal curve, regression, probability, statistical inference, confidence intervals and hypothesis tests with applications in the real world. Students also have the opportunity to analyze data sets using technology in their weekly laboratory discussions.

COR3032 Fundamentals of Artificial Intelligence 3c/h

In this course we will cover the past, present and future of artificial intelligence. We will also mention the most important concepts that will be useful in the rest of the specialized program. We will discuss the social, ethical and philosophical implications of developments in artificial intelligence in different areas of knowledge.

COR3033 Leadership and Multicultural Environment 3c/h

Leadership is examined through an interdisciplinary, global lens. Students learn how cultural context affects leadership style, conflict negotiation, and ethical decision making; examine how leaders might impact culture; and develop their own multicultural awareness and competencies. Contemporary cases of how leadership varies depending on the cultural context in which one is leading are researched.

COR3034 Marketing 3c/h

This course addresses concepts of effectively marketing goods and services; defining target customers from a domestic and global perspective. It includes market research, developing product offers, and branding, pricing, marketing communications and distribution channels.

COR3035 Nonprofit Management 3c/h

This course focuses on the information needed to lead a non-profit organization and manage it effectively so that more and more people know the basics of working with a non-profit organization. It provides all the necessary information before starting a non-profit organization or taking up a leadership role in an existing one.

CSY2061 Operating Systems 3c/h

Study of the structure of current computer operating systems. Topics include I/O management, memory management, multi programming, linking loaders, real and virtual systems, batch and time sharing.

CSY2062 Software Systems Architecture 3c/h

This course covers the state-of-the-art in architectural design of complex software systems. The course considers commonly used software system architectures, techniques for designing and implementing these architectures, models and notations for characterizing and reasoning about architectures, and case studies of current software system architectures.

CSY2063 Artificial Intelligence 3c/h

This course introduces you to the basics of Artificial Intelligence. Topics include machine learning, probabilistic reasoning, robotics, computer vision, and natural language processing. Students learn the basics of modern Artificial Intelligence as well as some of the representative applications of Artificial Intelligence.

CSY2064 Computer Systems and Networks 3c/h

This course provides a thorough understanding of the fundamentals of computer-based information systems and how they are used in modern enterprise systems. It introduces the fundamentals of operating systems, networking systems, distributed systems, and web services. It explores the hardware, software, and network components of typical information systems and provides some in depth description of their design principles, algorithms and implementation techniques.

CSY2065 Computer and Graphics 3c/h

The goal of this course is to understand the process of modeling and generating images of 3D objects. We will start by learning the basics of producing images on the computer screen using the WebGL API (Application Programming Interface). We will then look at the manipulating process of building two- and three-dimensional mathematical models of complex objects, manipulating and combining these models, and projecting the models onto a two-dimensional image space.

CSY4061 Network Management 3c/h

This course explores the five functional areas of network management: fault management, configuration management, accounting management, performance management, and security (FCAPS).

CSY4062 Digital Logic and Computer System 3c/h

In this course, digital logic is studied as a Sciences of reasoning applied to electrical circuits that are the support of digital systems. It delves into the area of mathematics that is used in the field of electronics, distinguishing itself as the main support of the structure of computers.

CSY4063 Discrete Mathematics for Computer Science 3c/h

This course covers widely applicable mathematical tools for computer science, including topics from logic, set theory, combinatorics, number theory, probability theory, and graph theory. It includes practice of reasoning formally and proving theorems.

CSY4064 Automata and Formal Languages 3c/h

In this course the study of abstract calculation devices is carried out, that is, of the "machines", the study of automatons and their relationship with the formal languages or set of symbols and preset rules to join those symbols constitute an important part of the core of Computer Science.

EDU5000 Online Education in the 21st Century 3c/h

Online instructors should promote 21st century skills directly, intentionally and measurably in their courses. This course, based on research, involves the 4C's: Creativity, Critical thinking, Communication and Collaboration; in addition to information literacy, media literacy, technology literacy, and career and life skills.

EDU5001 Design of Evaluation Strategies in Online Education 3c/h

In this course, students find ways to make the evaluation process more rewarding for all parties concerned by using frames and approaches that matter. They study the best strategy for effectively evaluating online learning programs by using what they already know, but also to add value and make meaning, integrate evaluation into larger processes, evaluate the process as well as results, and keep the focus on making things better.

EDU5002 Research as Tool in Online Education 3c/h

In this course we are addressing what the research to date can tell us about student, faculty and institutional change, what directions for future research seem most promising, and what we really need to do to move research on online learning to more rigorous and more informative levels.

EDU5003 Current Issues and Challenges in Online Education 3c/h

Online training comes with its own particular characteristics, which can jeopardize (or limit) the success of the training. E-learning should not be seen as a panacea. It is only by knowing the problems that other companies and institutions have encountered that you can implement programs to realize its full potential. Therefore, in this course we are going to investigate and identify the major problems of online training.

EDU5004 Innovative Resources for Online Education 3c/h

Online education has radically changed the landscape of modern education. We're learning in a new and more fluid environment, one ripe with opportunities for students of every kind. This course covers seven current trends in online education. These emergent approaches to content and curriculum are part of a whole new wave of learning opportunities distinguished by web mediation. As these trends demonstrate, online education is producing a whole new set of strategies for improving engagement, retention, and mastery.

EDU5005 Educational Psychology 3c/h

The goal of this course is to provide an overview of general principles, theories, issues, and related research in educational psychology. This is an applied area of psychology and includes constructs from cognitive, developmental, and social psychology, as well as neuroscience, as applied to education.

ENT6041 Entrepreneurial Mindset 3c/h

This course provides an overview of the entrepreneurial process that will teach one to identify, assess, shape, and act on opportunities in a variety of contexts, settings and organizations. One will learn and implement the method - Entrepreneurial Thought & Action® (ETA) – which will give one a proven and repeatable process to enhance one to create new and added value for stakeholders and society.

ENT6042 Avoiding Pitfalls in Entrepreneurship 3c/h

In this course, we will examine a range of dilemmas regarding the choice of hires, splitting the roles and equity within the team, whether and how to involve investors, why and how founders are replaced, and exit dilemmas. With each decision, we will delve into the potential pitfalls that exist and the ways to anticipate and avoid those pitfalls.

ENT6043 New Product Development 3c/h

In this course, we first focus on the tools and techniques associated with analyzing market opportunities and then focus on designing, testing, and introducing new products and services. Both quantitative and qualitative approaches are covered. In particular, the

course covers the new product development process, strategic opportunity identification, how to generate new product concepts and ideas, mapping customer perceptions, segmentation, product positioning, forecasting market demand, product design, market entry strategies, and testing.

ENT6044 Technology Development and Implementation 3c/h

The learning objective of this course is to provide a holistic, interdisciplinary and integrated view of the open technological innovation process in a competitive global market. It blends both market and engineering perspectives, so that students can develop correct understandings of how technological innovations impact on market competitions and how market competitions in turn, can change technological innovation.

ENT6045 Operations Management 3c/h

This course is an introduction to the concepts, principles, problems, and practices of operations management. Emphasis is on managerial processes for effective operations in both goods-producing and service-rendering organizations. Topics include operations strategy, process design, capacity planning, facilities location and design, forecasting, production scheduling, inventory control, quality assurance, and project management. The topics are integrated using a systems model of the operations of an organization

ENT6046 Leading Effective Teams 3c/h

Examines principles of building highly effective teams by analyzing the variety of interrelated practices underlying group dynamics. Combines learning through hands-on situations and contemporaneous experiences in a team- based exercise.

ENT6047 Advanced Analytics for Entrepreneurs 3c/h

The key objective of this course is to familiarize the students with the most important information technologies used in manipulating, storing, and analyzing big data. We will examine the basic tools for statistical analysis, R and Python, and several machine learning algorithms. The emphasis of the course will be on mastering Spark 2.0 which emerged as the most important big data processing framework.

ENT6048 Sales Management 3c/h

Students will be exposed to the responsibilities of a sales manager and the strategic role of Sales within the organization. The course is designed to teach students how to formulate, implement, and evaluate a sales program. The focus of the course is on the management of sales programs and salespeople.

ENT6049 Innovation and Sustainability 3c/h

The purpose of this course is to offer students practical information about the exciting frontier of innovation and entrepreneurial activity benefiting people, the planet, and profit. Sustainability in business refers to competitively advantageous strategies and practices firms adopt to grow revenues, cut costs, improve market share, enhance brands, and redesign products and processes to reduce or eliminate adverse environmental, health, and community impacts. We will examine key trends and drivers of corporate innovation, strategic shifts, and new markets.

ENT6050 Finance for Entrepreneurs 3c/h

In this course, students identify, access, and evaluate sources of financing for start-ups and expanding technology companies. The approach uses case studies, group interaction, and presentations from experts in the field. Attention will be given to financial theory, risk assessment, valuation options, term sheets, due diligence techniques, and the setting up of financial reports for monitoring progress toward meeting milestones.

ENT6051 Law for Entrepreneurs 3c/h

This course provides a survey of the bodies of law most crucial to advising entrepreneurs who are looking to establish or have recently established a business. As a survey, the course materials are an eclectic mix of different topical areas in law. These areas include choice of business structure, professional responsibility, employment and contract law, the legal framework of finance, intellectual property, and laws governing the sale of a business. Emphasis will be placed on understanding the role of business lawyers as counselors.

ENT6052 Entrepreneurship Capstone Project 6 c/h

The Capstone Project provides students with an opportunity to immerse themselves in the field of entrepreneurship by developing and presenting an innovative new venture. This project emphasizes both theoretical understanding and practical application, allowing students to integrate personal interests with knowledge gained throughout their program of study. The objective is to bridge the gap between entrepreneurial concepts and real-world business creation, aligning with our university's focus on invention and innovation. To successfully complete the project, students must demonstrate the ability to conduct comprehensive market research, analyze current industry trends, and apply entrepreneurial frameworks to support the development of an original business venture.

GEN1000 English Composition I 3c/h

This course will enhance their ability to communicate effectively and clearly by sharpening their critical thinking and writing skills. We will begin with a unit designed to change the way

in which one think about writing. One will also begin to value writing as a process – an admittedly difficult one – rather than a product. Also, this course will focus on academic writing, the minutiae of good writing practices from style to citation methodology, and to improve their ability to write clear, grammatically-sound expository and persuasive prose. Finally, we will include a "Grammar Capsule," focusing on a specific grammatical issue.

GEN1001 Innovation and Disruptive Thinking 3c/h

The objective of this course is to provide methods to enhance the ability to visualize multiple and dimensional environments, challenging the established and investigating new ideas and concepts of science and art. In this way, strengthen curiosity, assertiveness and creativity, generating new environments to see and solve possibilities in a unique and collaborative way.

MAT1007 College Algebra 3c/h

This course presents rational expressions, integer and rational exponents, quadratic formula, complex numbers, exponential and logarithmic functions, conic sections, trigonometry.

GEN1003 Global & Environmental Sustainability 3c/h

The accumulating impact of environmental problems on our lives has created a public awareness that environmentalists could only dream of about twenty years ago. However, within our complex consumer society, many of these "impacts" cannot be readily mitigated due to "needs" that they fulfill. Furthermore, we have evolved into a society where environmental sustainability means anti-economy and economic growth means anti-sustainability. This course looks to analyze this multifaceted problem with specific reference to sustainability within the urban and rural environments, as well as within the developed and developing worlds.

GEN1004 Creativity, Art and Superior Intelligence 3c/h

It is possible to obtain superior intelligence if the multiple intelligences of Howard Gardner, Alvaro Sanchez and others are developed and the spirit is also sensitized through the arts, aesthetic and beauty as new forms of capture the world. On the other hand, the impact on the mystery of the universe through creativity and imagination can bring geniality closer to increasing the capacity for attention, concentration and faith.

GEN3000 English Composition II 3c/h

Once this course is finished, students will be able to understand spoken and written texts effortlessly. They will also be able to reconstruct information and arguments from different

sources in a coherent and synthetic way. Students will be able to speak fluently and accurately, which will allow them to differentiate subtle meaningful hints, even during situations of greater communicative complexity.

GEN3001 Fundamentals of Programming 3c/h

Introduction to computer programming with emphasis on algorithms and an understanding of underlying hardware. Topics include syntax, variables, control structures, pointers, operators, functions, and input and output.

GEN3003 Knowledge Management 3c/h

The purpose of this course is to allow learning in information management and knowledge management. Be curators of content, capture the dynamics of knowledge that is permanently transformed, in order to apply it in technologies, new companies, concepts and ideas, transforming reality and generating new knowledge.

GEN3004 Leadership and Personal Power 3c/h

The purpose of this course is to go beyond leadership by discovering the dimension of personal power, which is the force that shapes character and destiny. That personal power that gives self-assurance and awakens the desire to be, to leave a mark on history, leading to a life of service and achievements.

GEN3005 Fundamentals of Science and Technology 3c/h

This course introduces the student to the logic of science and technology to understand today's world and prepare professionals for the fourth industrial revolution and perhaps prepare them for the fifth by helping to create it. It also allows the student to understand the fundamentals of mechanics, electronics, mechatronics, artificial intelligence, robotics, software, programming, etc. to innovate and transform.

ICT2041 Programming Languages 3c/h.

In this course, the student extends his/her knowledge of computer programming by learning abstraction techniques that help him build more complex and quality software in different types of languages. The course focuses on identifying common styles and techniques used in different programming languages, increasing their ability to abstract to build software independently of the language being used.

ICT2044 Data Management I 3c/h

This course indicates the importance of the use and implementation of the structure and ordering of the data. The organization of the multinational data within the framework of the learning processes.

ICT4045 Cybersecurity 3c/h

This course is designed to teach mid-level security practitioners how to engage all functional levels within the enterprise to deliver information system security. To this end, the course addresses a range of topics, each of which is vital to securing the modern enterprise. These topics include inter alia plans and policies, enterprise roles, security metrics, risk management, standards and regulations, physical security, and business continuity. Each piece of the puzzle must be in place for the enterprise to achieve its security goals; adversaries will invariably find and exploit weak links.

ICT4046 Models and Systems Simulation 3c/h

This course presents the concepts of systems and models, defining the characteristics that allow classifying the types of models, the concept of simulation and the types of simulation models. The apprentices will be able to study the different dynamic systems and mathematical models, the principles of the generation of systems including continuous and discrete models.

ICT4047 Machine Learning Challenge and Future Project 3c/h

In this course, the fundamentals of machine learning are taken and applied to the approach of a project that allows them to solve a real need of the learner's environment.

ICT4048 Robotics 3c/h

This course is a challenging introduction to basic computational concepts used broadly in robotics. Topics include simulation, kinematics, control, optimization, and probabilistic inference. The mathematical basis of each area is emphasized, and concepts are motivated using common robotics applications and programming exercises.

ICT6011 Programming for Online Education 3c/h

This course drives deeply into the design and implementation of web apps with Python, JavaScript, and SQL using frameworks like Flask, Django, and Bootstrap.

ICT6012 Virtual Reality and Gamification 3c/h

This course presents the theories of technology relating to interaction through gaming. Students undertake critical comparative analysis of digital games to develop an

understanding of how game design principles provide opportunities for engagement and participation in both virtual gaming playgrounds and non–game contexts. Students will examine and critically reflect on the accessibility and intercultural communication opportunities that gaming communities provide as well as the possible disconnects and social encumbrances this new wave of work and play may create. They will use methods of evaluating digital environments along the lines of aesthetics, usability and resource efficiency and be involved in considering a game-like track for a game or non–game context.

ICT6013 Artificial Intelligence & Machine Learning Implementation 3c/h

In this course they review the concepts previously acquired in the classes of artificial intelligence and machine learning and analyze the different applications of these concepts in real situations of the learner's environment.

ICT6014 Data Management II 3c/h

This course brings the students to know their skills in leadership. The meaning of creativity and personal imagination through the use of technological tools stimulating data management, for business management.

ICT6015 Project in Computer Innovation for Online Education 3c/h

There are so many challenges and trends for innovation in Online Teaching. In order to lead, teachers need to integrate the latest research in cognitive processing and learning outcomes. This practical course shows students how to identify opportunities for building games, simulations, and virtual environments into the curriculum; how to successfully incorporate these interactive environments to enhance student learning; and how to measure the learning outcomes. It also discusses how to build institutional support for using and financing more complex innovation.

MBI2071 Business Intelligence 3c/h

This course introduces students to business intelligence (BI) principles and tools for transforming data into actionable insights for strategic decision-making. Students explore data collection, warehousing, mining, and visualization using platforms like Tableau and Power BI. Through hands-on projects and case studies, students learn to analyze business performance, identify trends, and address ethical considerations in data-driven decisions. The course highlights BI's role in enhancing organizational efficiency, competitiveness, and innovation.

MBI2072 Principles of Management and Business Intelligence 3c/h

This course lays the foundation for understanding the basic functions of the business intelligence of management. It is focused on goal setting, planning, and organization, and how decision making, motivation and communication are used to achieve goals. Managers must also know how to measure performance and methods for reinforcement with business intelligence.

MBI2073 Strategy Planning for Business 3c/h

This course emphasizes strategic planning and implementation across a broad spectrum of business contexts. It focuses on the managerial, multi-business, multi-industry, multicultural, and multinational complexities of achieving and sustaining competitive advantage. The overarching goal of the course is to have students demonstrate their capacity to develop and execute organizational strategies in actual or simulated business situations.

MBI2074 International Business 3c/h

The course examines global economies and markets, such as business customs, multinational businesses and foreign trade practices. Students also study foreign business environments, cultural dynamics, economic developments and political impacts on foreign businesses.

MBI2075 BI and Data Analysis 3c/h

In this course, students will learn the complete analytics cycle, from determining requirements to extracting and disseminating information. It will cover the process, technologies, applications, tools, and skills required to analyze data so that informed and timely decisions can be made.

MBI4071 Business Modeling 3c/h

This is a managerial decision-making course. Various techniques for analytical modeling, such as forecasting, optimization, simulation, decision analysis, and classification, are discussed. Students gain mastery of developing models implemented in decision support systems that cover applications in strategic planning, financial management, operations/project management, and marketing research.

MBI4072 Business to Business Marketing and Sales 3c/h

B2B sales and marketing teams both share the same end goal – to bring money into the business – but their individual priorities and methods will be very different. In this course, students are going to learn that while the two teams may have different priorities, when they

work together the results can be phenomenal. Marketing should focus on bringing in the most relevant traffic, then nurture these leads along the funnel until they are sales ready. Sales should then step in to close the deal, creating a seamless experience.

MBI4073 Decision Models and Analytics 3c/h

This course will show one how to analyze a wide array of business planning and decision problems involving data with the help of spreadsheet models. We provide a framework for quantitative decision making, optimal design, effective resource allocation and economic efficiency. The class will focus both on modeling the decision problems and implementing the designed models over the collected data.

MBI4074 Disruptive Innovations 3c/h

Disruption caused by innovation affects firms across multiple industries, from financial services to industrial firms, business processes to payment systems, manufacturing to supply chains. Students will learn about artificial intelligence (AI), big data, machine learning, blockchain, and fintech as examples of contemporary manifestations of disruptive technology that will profoundly influence disciplines beyond business and finance, such as law, health care and government.

MBI4075 Database Design and Data Warehouse 3c/h.

In this course, you will learn exciting concepts and skills for designing data warehouses and creating data integration workflows. You will have hands-on experience of data warehouse design and use open manipulating pivot tables and creating data integration workflows. You will also gain conceptual background about mature models, architectures, multidimensional models, and management practices, providing an organizational perspective about data warehouse development.

MDM2101 Graphic Design 3c/h

This class is intended to stimulate both an understanding of and critical thinking about basic visual design theory and practice. Given the rules of the project and the fundamental principles of design, students will be able to produce a range of work that exhibits both their individual creativity and their knowledge of design fundamentals.

MDM2102 Digital Marketing 3c/h

This course will give the students the opportunity to explore and appreciate the enormous value of the Internet as a marketing tool, to examine specific tools and technology useful to e Commerce marketing and, to put into practice the principles and concepts in order to

obtain hand-on experience in the construction of web sites from the perspective of e-Business approaches.

MDM2103 Digital Imaging and Manipulation 3c/h

Digital Imaging Manipulation teaches the skills required for creating, manipulating, and publishing digital images for both print and interactive media. Students will work with image editing/ creation software Adobe Photoshop® as they learn the technical and creative processes concerning image resolution, color modes, image correction, image compositing, and image manipulation. The variety of digital file formats currently available and their appropriate use for both screen and media is covered.

MDM2104 Global Marketing Management 3c/h

Global marketing is more than simply selling a product internationally. Rather, it includes the whole process of planning, producing, placing, and promoting a company's products in a worldwide market. Large businesses often have offices in the foreign countries they market to; but with the expansion of the Internet, even small companies can reach customers throughout the world.

MDM2105 Marketing Decision Analysis 3c/h

This course is designed to give students the nature of the links between marketing efforts and results and define what marketing is and what its core concepts are. The purpose of this course is, among others, to establish how marketing works and how it must be measured. At the same time, students will discuss the real context in which marketers operate, how organizations create value, and how marketing creates value. The nature of customer value (where benefits are) will be compared to the costs or sacrifices.

MDM4101 Social Media Marketing 3c/h

This course provides an introduction to social media marketing (SMM). It is built around a proven eight-step social media planning model that provides you with a cumulative learning experience showing you how to construct social media strategies that achieve desired marketing goals. You will be taught the rules of engagement and social media ethics for behaving properly as marketers on the social web.

MDM4102 Machine Learning 3c/h

This course will break down the fundamentals of machine learning and what it truly means. Students will learn to leverage neural networks, predictive modeling, and data mining algorithms, illustrated with real-world applications for finance, business and marketing.

MDM4103 Consumer Behavior 3c/h

This course explores the behavior that consumers display in searching, purchasing, using, evaluating and disposing of products.

MDM4104 Neuromarketing 3c/h

This course offers a comprehensive insight into the workings of the brain and its mind, and how this knowledge can inform our understanding of consumption behaviors. The content offers both basic and front-end academic insights and includes sensation and perception; attention and consciousness; emotion and feeling; memory and learning; motivation and preference; and decision-making.

MDM4105 Digital Marketing Project 3c/h

In this course the concepts and techniques of digital marketing are applied to the creation of a project that implies an innovative solution to a real problematic situation.

MEN2081 Entrepreneurial Skills 3c/h

This class is all about entrepreneurship: nature and importance; forms of entrepreneurship; the entrepreneurial mind and process; creativity, ideas, innovation; entrepreneurial prospects; recognizing means to support innovative activities; resources and finance, intellectual property questions, teamwork, taking risks, business and ethics, marketing innovation and strategy, dealing and getting customers and intellectual property questions and finally, the entrepreneurial viability planning.

MEN2082 Bio Entrepreneurship 3c/h

This course examines the entrepreneurial processes in biotechnology from idea generation through economic viability. Biotechnology companies are unique in that they need a few years to decades-long periods of incubation prior to becoming self-sustaining. Students will be introduced to the steps needed to start and create a company and gain an ability to assess the health of potential collaborators, partners or employers. Topics include an overview of the global biotechnology industry, idea generation, business plan formulation, intellectual property protection, and finding.

MEN2083 Entrepreneurship Creativity and Problem Solving 3c/h

The course teaches creative solving techniques, entrepreneurial mindsets, and lean startup methodology in an immersive, participative environment. Students will learn creativity and innovation techniques, and intellectual property basics. In addition, students will develop skills in rapid idea generation, opportunity recognition, and customer interviewing.

MEN2084 Social Entrepreneurship 3c/h

Social Entrepreneurship is an emerging and rapidly changing business field that examines the practice of identifying, starting and growing successful mission-driven for-profit and nonprofit ventures. That is, organizations that strive to advance social change through innovative solutions. This course is designed to provide a socially relevant academic experience in order to help students gain in-depth insights into economic and social value creation across a number of sectors/areas, including poverty alleviation, energy, health and sustainability.

MEN2085 Opportunity Assessment 3c/h

This course teaches how to assess possible business opportunities including possible project management opportunities that are mainly, but not exclusively, based on an innovative technological concept. Rapid screening techniques are introduced, which will address the underlying business concept, the base technology, and benefits.to customers, potential markets, financial feasibility, risk and benefits to the organization and the next steps to be taken. Opportunity screening protocols will be treated in depth and a comprehensive venture - screening guide will be developed during the course. The course covers all the key elements of a feasibility study for a new enterprise.

MEN4081 New Venture Planning 3c/h

To have a thorough understanding and develop the ability to successfully apply Entrepreneurial concepts. These concepts can be applied in both entrepreneurial and corporate environments. Topics of study will include: An opportunity for self-analysis, and how this relates to success in an entrepreneurial environment, information and understanding necessary to launch and grow an entrepreneurial venture.

MEN4082 Entrepreneurial Finance 3c/h

This class provides a crash course in all the topics surrounding financing and creating financially profitable businesses. Aside from covering various methods of raising funds, students also learn about financial forecasting, creating long- term capital, and attracting investors.

MEN4083 Entrepreneurial Consulting 3c/h

In addition to starting their own small businesses, many entrepreneurs find it professionally rewarding to consult with other aspiring business owners and troubleshoot issues in their companies. This course provides the skills and knowledge needed to be an effective consultant in this sphere.

MEN4084 The Entrepreneurial Mindset 3c/h

In this course, students pursuing a small business degree analyze common characteristics of entrepreneurs, with emphasis on developing skills that help them see unmet needs and opportunities within the business world. Students consider topics such as innovation, strategy, and the value of ideas.

MEN4085 Corporate Innovation Strategies and Entrepreneurial Methods 3c/h

Explores the methods used to foster innovation and entrepreneurship in a corporate setting, with a special emphasis on how organizations foster creativity, innovation, and new venture creation.

MSM2091 Introduction to Sports Management 3c/h

The purpose of this class is to provide an overview of the sports industry that introduces the student to the fundamental knowledge and skill sets required of the Sports manager to solve sports business problems. Focus will also be placed on understanding career options in the sports industry and preparing for employment. Identifies necessary competencies for Sports managers

MSM2092 Entrepreneurship Tourism, Recreation and Sports Management 3c/h

In-depth study of the delivery of leisure services in the for-profit sector. It covers the scope and administrative functions of recreation enterprises, including an analysis of planning, controlling, and developing recreation enterprises.

MSM2093 Sports Facilities and Event Management 3c/h

Provides the requisite knowledge to become an event and facility manager. Preparation for becoming an effective manager of the unique environment specific to the athletic arena. Students will also be required to do field experience in event management

MSM2094 Sports Finance and Economics 3c/h

An analysis of financial and economic concepts applied to sports environments. Entrepreneurs will be viewed as economic systems which must respond to changes in supply, demand, and market trends. Fundraising for various constituencies will also be explored.

MSM2095 Moral and Ethical Reasoning in Sports 3c/h

This course will provide philosophical theory that has proven effective in ethical and moral development of athletes. Strategies will be presented to aid the students in the development of a consistent value system based on justice, responsibility, and beneficence.

MSM4091 Strategic Sports Management 3c/h

This course introduces the fundamentals of strategic planning, environmental analysis, strategic direction and leadership, strategy formulation and selection, implementation, strategic control, and change management. Designed to encourage students to develop a strategic mindset, as well as critical thinking and problem-solving skills, the class unpacks key concepts such as leadership, governance, organizational change, and the multiple layers of strategy in Sports.

MSM4092 Legal Aspects of Sports 3c/h

This course offers a comprehensive and authoritative examination of the legal issues surrounding and governing Sports. Alert to the role that Sports plays within society throughout, this course is divided into four core Governance: Governance & Sports, Commercial Regulation, Sports Workplace and Safety in Sports.

MSM4093 Research Methods in Sports Management 3c/h

Research Methods in Sports Management, explains research design, implementation, and assessment criteria with a focus on procedures unique to the discipline of Sports management.

MSM4094 Sports in the Global Market 3c/h

This course offers state-of-the-art overviews of the development of every major Sports or classification of Sports, examining their history, socioeconomic significance, political economy and international reach, and suggesting directions for future research

MSM4095 Biomechanics 3c/h

This course introduces students to the concepts of mechanics as they apply to human movement, particularly those pertaining to exercise, Sports, and physical activities.

MAK5001 Advertising Models and Metrics 3c/h

Solutions that allow marketers to leverage an unmodified measurement analytic framework. Are you confident your marketing optimization is on a path of revenue and profit? Industry Leader. Collaborative Partner. Predictive Analytics. Services: Marketing Mix Modeling, Measurement Optimization, Media & Market Testing, Pricing Analytics. The specific marketing metrics you track are highly dependent upon your company's product, business model, industry and a host of other factors. Whether you're an established brand with a few go-to metrics already identified or a startup with a clean slate, you're sure to find something useful on this list of 51 crucial marketing metrics.

MAK5000 Business Model 3c/h

This course introduces a structured way to think about, analyze, and develop a sound business model. The business model encompasses your product or service, your customers, and the economic engine that will enable you to meet your profitability and growth objectives. Business model analysis is important for startups, new and established businesses which need to discover, defend or evolve their business models. What makes the difference between success in the lab and success in the marketplace is the business model.

MAK5002 Multicultural Marketing 3c/h

This course reaches cultural sensitivity and prepares students to promote products and preservice to a diverse marketplace within global contexts. The course focuses on racial/ ethnic groups, and it also covers mature people. Reviews cultural differences and similarities and provides the context for research projects to understand consumer communication and behavior of these emerging groups.

MAK5003 Information Systems Management 3c/h

Prepares students for the role that information technology plays in today's businesses. Topics include advanced software applications, networking and the Internet and business communications.

MAK5004 Data Analytics 3c/h

The big data “big bang” continues to reverberate through every aspect of life, driving new technology while requiring business and tech leaders to become experts capable of adjusting to the rapidly evolving opportunities related to data and its analysis. Now is the time to capitalize on this growing opportunity and advance in your career

MAK6000 Social Media Marketing. Web Analysis 3c/h

This course explores the implementing revolution in digital analytics, one that has the potential to change both the Web analytics and business intelligence fields. Students will study Web Analytics and learn how disparate components connect to form complex networks. Master the concepts of popular communication protocols, the configuration of routers/switches, and TCP/IP implementation.

MAK6001 Analysis of AdWords, Content Marketing 3c/h

You know it’s smart to connect with over 500 million business professionals on LinkedIn, but you may not know how to do it without wasting tons of time and money. This course delivers a step-by-step guide to using LinkedIn to grow your business, find profitable clients

and customers, and hire the perfect employees. Learn the most effective ways to keep you and your business in front of decision makers and build strong referral networks. Make online connections that are as strong as those made in person.

MAK6002 Competitive Advantages, Smart Goals. 3c/h

This course focus goal is basically what the acronyms from the name suggest. It is specific, measurable, attainable, and relevant and time-bound. The Smart Goal process provides a frame where you can create a long-term goal. It also provides a time limit for you to work on the same goal. By doing these business accountabilities, we are 70% more successful in achieving their goals thanks to regular check-ins, updates and group accountability. Below are a few smart goal examples for business development that will help you understand the system better and enhance your business.

MAK6003 Definition of Objectives. Goals and Conversion. Google Data 3c/h

This course permits the goal types described above. Analytics provides an alternative conversation tracking method called Smart Goals. Smart Goals are specifically designed to help Google Ads advertisers who may not have enough conversations to use the Google Ads optimization tools, such as automated bidding. When you have Smart Goals enabled, Analytics automatically evaluates your website or app visits and assigns each a score, with the "best" visits being translated into Smart Goals.

MAK6004 Digital Marketing Capstone Project 6 c/h

The Capstone Project offers a chance for students to dive deep into a specialized area within Digital Marketing. This project will focus on both research and practical application, drawing on personal interests and program of study. The goal is to bridge the gap between theoretical knowledge and real-world experience, aligning with our university's emphasis on invention. To successfully complete the project, they will need to demonstrate the ability to gather information, review current research, and conduct thorough background research to support original work.

IAR5000 Computational Intelligence 3c/h

In this course, the student is introduced to different adaptive mechanisms that allow the intelligent behavior of complex and changing systems. Topics such as Evolutionary Computing, Swarm Intelligence, Artificial Immune Systems or Fuzzy Systems are covered. It is also related to techniques such as Fractals, Chaos Theory, Wavelets, Cellular Automaton, etc.

IAR5001 Machine Learning and Deep Learning 3c/h

In this course the student has the opportunity to learn about topics related to algorithms and data patterns that allow making predictions and modeling high-level abstractions using computational architectures that support multiple and iterative nonlinear transformations of data expressed in matrix or tensor form mimicking the behavior of human neurons.

IAR5002 Machine Vision and Pattern Recognition 3c/h

This course explores methods to recognize, acquire, process, analyze and understand images of the real world in order to produce numerical or symbolic information that can be treated by a machine from segmentation processes, extraction of characteristics and description that can be applied in the creation of intelligent systems.

IAR5003 Intelligence Systems 3c/h

This course provides the tools for creating expert software used in artificial intelligence that emulates the behavior of a human expert in solving a specific problem, providing improvements in the quality and speed of responses, thus leading to an improvement in the productivity of the human expert.

IAR5004 Data Science 3c/h

Training in the use of different technologies and methods, such as machine learning to process and analyze all the data collected by a company, in order to identify patterns and trends that are useful for making strategic decisions covering three functions: notions of analytical method and technological knowledge.

IAR5005 Artificial Cognitive Systems 3c/h

Study and creation of complete systems with the ability to make reasoned deductions, generate hypotheses and test them, understand virtually all types of structured and unstructured data, such as natural language, images and sounds, allows automated access to innumerable sources of data that until now have been considered hidden, allowing the development of new services.

IAR6001 Natural Language Processing 3c/h

This course studies the interactions between computers and human language through the use of natural languages, such as Spanish, English or Chinese.

IAR6002 Planning and Approximate Reasoning 3c/h

Introduction to the planning techniques as problem solving tools. The main approaches to automatic planning will be presented. The student must be able to use different types of

planners and solve a case study. The second part is developed to introduce the main concepts of approximate reasoning, focusing on Fuzzy Logic. The use of fuzzy logic in rule-based systems will be presented. The student must be able to apply this methodology to a particular problem.

IAR6003 Complex Networks and Mind Brain and Machines 3c/h

This course gives the student the ability to understand advanced techniques of Computational Intelligence and structure-property relationships of complex Chemical-Biological systems. It also provides the skills to design, implement and apply these techniques in the development of applications, services or intelligent systems. It involves topics such as computer models of Biomedical Sciences, QSPR models among others.

IAR6004 Principles, Devices, Communication and Infrastructure for AI / IOT and Robotics 3c/h

This course gives the student the principles of robotics related to domestic and industrial applications and work carried out by robots or applications that involve, among other elements, sensors and software with artificial intelligence. It includes everything from common household objects to health care resources such as medical devices.

IAR6005 Decision Making Under Uncertainty 3c/h

This course presents the knowledge bases to solve particular problems, as well as the support tools for data processing and calculation that deal with decision- making under conditions of certainty.

IAR6006 AI Capstone Project 6 c/h

The Capstone Project offers a chance for students to dive deep into a specialized area within Artificial Intelligence. This project will focus on both research and practical application, drawing on personal interests and program of study. The goal is to bridge the gap between theoretical knowledge and real-world experience, aligning with our university's emphasis on invention. To successfully complete the project, they will need to demonstrate the ability to gather information, review current research, and conduct thorough background research to support original work.

SEC5000 Security Fundamentals and Risk Management 3 c/h

This course allows students to acquire theoretical and practical knowledge of computer security and risk analysis, it involves topics such as offensive and defensive security, perimeter security, and risk analysis and control techniques.

SEC5001 Cyber Analyst and Cryptography 3c/h

In this course, the student is trained in planning, implementation, improvement, monitoring, as well as the implementation of cryptographic techniques and appropriate security controls to safeguard the digital files and vital electronic infrastructure of a company with an emphasis on maintaining Integrity. Avail integrity, Control and Authenticity of the information handled.

SEC5002 Integrative Cybersecurity Management 3c/h

The Integrative Cybersecurity Management course is driven by seminars and advice led by the Capstone Faculty Directors and Industry Capstone Mentors, resulting in a team-based project presented at the culmination of the program. The course requires students to build on their own professional experience and exposure to the academic content of the program to create a meaningful project that demonstrates their ability to take an integrated view of cybersecurity risk and strategy.

SEC5003 Legal Aspects of Security: Legal Aspects of Security 3c/h

This course covers the different laws that involve issues related to information security, and covers topics such as data protection, guarantee of digital rights, the law of protection of intellectual property, international regulations among others.

SEC5004 Network and Operating Systems 3c/ h

This course introduces the learner to techniques for defense and attack on operating systems, technological infrastructures and perimeter security, it deals with topics such as traffic analysis tools and port scanning, and Wireshark, use and categories of scripts, VPN topologies, Firewalls, SSL certificates, rules and logs, Spoofing, DNS Poisoning, ARP tables and Virtual private networks

SEC5005 Database and Application Security 3c/h

This course provides a detailed, current and practical view of security threats and vulnerabilities that affect infrastructures, environments and applications, as well as knowledge, good practices, defense mechanisms and detection, validation and mitigation techniques, and of the technical risks existing in the applications and databases in the companies.

SEC6001 Intrusion Detection and Prevention Systems and Forensic Analysis 3c/h

This course presents an introduction to different techniques and tools for intrusion detection and forensic analysis, ranging from the installation, configuration and use of monitoring and analysis tools in Linux and Windows to study of situations real and reporting tools

SEC6002 Vulnerability Management 3c/h

In this course specialized tools are studied in vulnerability analysis, and techniques to perform device analysis in order to identify the risks in the applications and services that support these and the application of controls.

SEC6003 Security Audit 3c/h

In this course the student learns to interpret, document, implement and audit the requirements of the Information Security Management System in a company.

SEC6004 Security Administrator and Business Continuity Planning 3c/h

In this course, students will learn about the different information protection technologies that help protect a business environment that guarantee the continuity of business operations. It involves topics such as Information Rights Management, message encryption, security policies and rules, data loss prevention, and information protection.

SEC6005 Ethical Hacking 3c/h

The course allows learners to create computer programs and the execution of techniques that allow to exploit existing vulnerabilities in a company's system using the same methods and techniques like a malicious hacker as well as the installation of controls to protect stored information in an organizational structure, in order to protect it from computer viruses and digital attacks that another type of hacker tries to execute.

SEC6006 Cybersecurity Capstone Project 6c/h

The Capstone Project offers a chance for students to dive deep into a specialized area within the field of Security and Cybersecurity Systems. This project will focus on both research and practical application, drawing on personal interests and program of study. The goal is to bridge the gap between theoretical knowledge and real-world experience, aligning with our university's emphasis on invention. To successfully complete the project, they will need to demonstrate the ability to gather information, review current research, and conduct thorough background research to support original work.

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