



ADENDDUM #5 TO THE INSTITUTIONAL CATALOG 2023-2024

Effective in October 2024



Addendum to the Institutional Catalogue 2023-2024

The following amendments are made to the 2023-2024 Columbia Central University (CCU) Institutional Catalog to align with revisions to the university's administrative policies and processes. In view of the above, the revisions to the academic programs for the School of Management, School of Applied Arts, and School of Health Sciences are presented:

School of Administration

- Master Degree in Business Administration with a specialty in Management
- Master Degree in Business Administration with a specialty in Human Resources
- Master Degree in Business Administration with a specialty in Health Organization Management

School of Health Sciences

- Master Degree in in Nursing with a specialty in Adults and the Elderly with a role in Management or Education

School of Applied Arts

- Associate Degree in Audio

The implementation of these curricular revisions and new programs will take effect in **October 2024.**

Page 165-171, Proceeds to disclose changes to the Master Degree in Business Administration with a specialty in Management in CCU's School of Administration:

MASTER'S DEGREE IN BUSINESS ADMINISTRATION WITH A SPECIALTY IN MANAGEMENT

CIP Code: 52.0201

SOC Code: 11-1011, 11-1021, 11-3011, 11-3131, 11-9199

Credits: 39 credits

Duration: 1 year

Location: Caguas

Modality of Study: On ground and Online

The master's degree in business administration with a specialty in Management will equip students with the management and leadership skills necessary to face a constantly changing business world. Throughout the program, they will use knowledge and skills in key management areas, such as strategic management, ethical leadership, project management, and human resources management. Likewise, students will develop practical skills related to business decision-making, problem resolution, and effective work team and project management. Graduates of this program will be able to work as general managers, operations managers, administrative directors, or project leaders, among others.

PROGRAM COMPETENCIES

1. Apply knowledge and skills creatively when performing the duties of a manager to overcome challenges and achieve organizational success by engaging in local and global initiatives.
2. Analyze logically and critically complex situations, as well as innovative opportunities, from various perspectives to develop creative strategies for achieving organizational objectives.
3. Defend arguments verbally and in writing in a way that is assertive and efficient when performing the duties of a manager.
4. Use technology and computers to improve operational efficiency, decision-making, and the global competitiveness of an organization.
5. Evaluate the economic, cultural, social, and political environment of companies to contribute to the value of organizational operations.
6. Demonstrate leadership, an entrepreneurial vision that is tolerant of cultural diversity, and critical thinking skills when making optimal decisions based on ethics and social responsibility.

Graduation Requirements:

1. Have achieved a minimum GPA of 3.00 or more.

**MASTER'S DEGREE IN BUSINESS ADMINISTRATION
WITH A SPECIALTY IN MANAGEMENT
CURRICULAR STRUCTURE
CORE COURSES**

Prescribed: 24 credits

COURSE	CODE	COURSE NAME	CONTACT HOURS	CREDITS
MBA	5000	Organizational Behavior	45	3
MBA	5010	Marketing Management	45	3
MBA	5020	Managerial Economics	45	3
MBA	5040	Managerial Accounting	45	3
MBA	5050	Managerial Finance	45	3
MBA	6000	Business Administration Integrating Seminar	45	3
REME	5100	Research Methodology	45	3
STAT	5210	Statistics	45	3

Sub-Total: **360 hours 24 credits**

MAJOR COURSES

Prescribed: 15 credits

COURSE	CODE	COURSE NAME	CONTACT HOURS	CREDITS
MANA	6000	Management and Strategic Leadership	45	3
MANA	6010	Ethical Leadership	45	3
MANA	6020	Global Strategic Management	45	3
MBA	5240	Project Management and Administration	45	3
MANA	6030	Human Capital Management	45	3

Sub-total: **225 hours 15 credits**

The curricular structure of the master's degree in business administration with specialty in Management includes the following components:

COMPONENT	HOURS	CREDITS
Core Courses	360	24
Major Courses	225	15
Total	585	39

**MASTER'S DEGREE IN BUSINESS ADMINISTRATION
WITH A SPECIALTY IN MANAGEMENT**

CURRICULUM SEQUENCE

COURSE	CODE	COURSE NAME	PRE-REQUISITES	CREDITS
FIRST TERM: 12 CREDITS				
MBA	5000	Organizational Behavior	----	3
MBA	5010	Marketing Management	----	3
MBA	5020	Managerial Economics	----	3
MANA	6000	Management and Strategic Leadership	----	3
SECOND TERM: 15 CREDITS				
MBA	5040	Managerial Accounting	----	3
MANA	6010	Ethical Leadership	----	3
STAT	5210	Statistics	----	3
MBA	5240	Project Management and Administration	----	
MANA	6020	Global Strategic Management	----	3
THIRD TERM: 12 CREDITS				
MBA	5050	Managerial Finance	----	3
REME	5100	Research Methodology	----	3
MANA	6030	Project Management in Health Care Organizations	----	3
MBA	6000	Human Capital Management	MBA 5050	3

Grand Total of the master's degree in business administration with specialty in Management: 39 credits and 585 hours

** The student does not necessarily have to follow the suggested course order, but the order helps them complete their degree in the stipulated time. The student must be aware of taking the courses that have prerequisites in an order that allows them to continue taking the other courses without problems. Courses without prerequisites have no specific order. The student can register for them in the term that they are offered.

MINIMUM GRADING POLICY

Students enrolled in the master's degree in business administration with specialty in Management must obtain at least a grade of B when passing all courses.

Page 172-178, Proceeds to disclose changes to the Master Degree in Business Administration with a specialty in Human Resources in CCU's School of Administration:

**MASTER'S DEGREE IN BUSINESS ADMINISTRATION
WITH A SPECIALTY IN HUMAN RESOURCES**

CIP Code: 52.1001

SOC Code: 11-3111, 11-3121, 13-1071, 13-1141

Credits: 39 credits

Duration: 1 year

Location: Caguas

Modality of Study: On ground and Online

The master's degree in business administration with a specialty in Human Resources will prepare students for managing human talent, organizations, and work environments to achieve organizational goals. Students will apply practical knowledge of labor law and state and federal legislation relevant to the processes of a human resources (HR) department. They will develop skills in data analysis and interpretation for informed decision-making in human resource management. They will examine how the business strategy aligns with the human capital strategy of a business. Students will evaluate how HR decisions contribute to organizational effectiveness and the competitive advantage of a business. They will analyze case studies and scenarios specific to the human resources profession to develop the competencies necessary to effectively perform their roles. Program graduates will be able to work as chief human resource officers (CHRO), human resources business partners, human resources managers, human resources specialists, and consultants, among others.

PROGRAM COMPETENCIES

1. Apply knowledge of a human resources department's role in the employee acquisition, development, retention, and compensation processes, among others.
2. Incorporate effective communication skills in the elaboration and defense of written and spoken arguments, being sensitive to the concerns presented by the employees, and sharing information through diverse organizational levels.
3. Demonstrate the ability to lead with an entrepreneurial vision for creating a work environment based on diversity, equality, and inclusion where the workforce is treated with respect and dignity and has equal access to opportunities.

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4. Critically analyze the issues related to human talent management to make optimal decisions based on ethics and social responsibility.
 5. Develop skills in people analytics using technology to improve the processes related to human talent management in businesses.
 6. Assess the economic, cultural, social, political, and legal environments in which organizations operate to manage the efforts of the human resources staff so that they will add value to these organizations.
 7. Develop knowledge and skills for the understanding of business acumen to establish strategic human resources initiatives that are aligned with the strategies of the organization.

Graduation Requirements:

2. Have achieved a minimum GPA of 3.00 or more.

**MASTER'S DEGREE IN BUSINESS ADMINISTRATION
WITH A SPECIALTY IN HUMAN RESOURCES**

CURRICULAR STRUCTURE

CORE COURSES

Prescribed: 24 credits

COURSE	CODE	COURSE NAME	CONTACT HOURS	CREDITS
MBA	5000	Organizational Behavior	45	3
MBA	5010	Marketing Management	45	3
MBA	5020	Managerial Economics	45	3
MBA	5040	Managerial Accounting	45	3
MBA	5050	Managerial Finance	45	3
MBA	6000	Business Administration Integrating Seminar	45	3
REME	5100	Research Methodology	45	3
STAT	5210	Statistics	45	3

Sub-Total: **360 hours** **24 credits**

MAJOR COURSES

Prescribed: 15 credits

COURSE	CODE	COURSE NAME	CONTACT HOURS	CREDITS
HURE	6000	Human Resources Role in Organizations	45	3
HURE	6015	Total Compensation Strategy	45	3
HURE	6025	Employment Law	45	3
HURE	6035	People Analytics	45	3
HURE	6045	Strategic Human Resources Management (Capstone)	45	3

Sub-total: **225 hours** **15 credits**

The curricular structure of the master's degree in business administration with specialty in Human Resources includes the following components:

COMPONENT	HOURS	CREDITS
Core Courses	360	24
Major Courses	225	15
Total	585	39

**MASTER'S DEGREE IN BUSINESS ADMINISTRATION
WITH A SPECIALTY IN HUMAN RESOURCES**

CURRICULUM SEQUENCE

COURSE	CODE	COURSE NAME	PRE-REQUISITES	CREDITS
FIRST TERM: 12 CREDITS				
MBA	5000	Organizational Behavior	----	3
MBA	5010	Marketing Management	----	3
MBA	5020	Managerial Economics	----	3
HURE	6000	Human Resources Role in Organizations	----	3
SEGUNDO TÉRMINO: 15 CRÉDITOS				
MBA	5040	Managerial Accounting	----	3
HURE	6015	Total Compensation Strategy	----	3
STAT	5210	Statistics	----	3
HURE	6025	Employment Law	----	
HURE	6035	People Analytics	----	3
TERCER TÉRMINO: 12 CRÉDITOS				
MBA	5050	Managerial Finance	----	3
REME	5100	Research Methodology	----	3
HURE	6045	Strategic Human Resources Management (Capstone)	----	3
MBA	6000	Human Capital Management	MBA 5050	3

Grand Total of the master's degree in business administration with specialty in Human Resources: 39 credits and 585 hours

** The student does not necessarily have to follow the suggested course order, but the order helps them complete their degree in the stipulated time. The student must be aware of taking the courses that have prerequisites in an order that allows them to continue taking the other courses without problems. Courses without prerequisites have no specific order. The student can register for them in the term that they are offered.

MINIMUM GRADING POLICY

Students enrolled in the master's degree in business administration with specialty in Human Resources must obtain at least a grade of B when passing all courses.

Page 179-185, Proceeds to disclose changes to the Master Degree in Business Administration with a specialty in Health Organization Management in CCU's School of Administration:

**MASTER'S DEGREE IN BUSINESS ADMINISTRATION
WITH A SPECIALTY IN HEALTH ORGANIZATION MANAGEMENT**

CIP Code: 51.0701

SOC Code: 11-9111

Credits: 39 credits

Duration: 1 year

Location: Caguas

Modality of Study: On ground and Online

The master's degree in business administration with a specialty in Health Organization Management offers students the theoretical foundations of the administration of health service organizations. Students will analyze the quality indicators that measure the provision of health services for the formulation and review of public and institutional policies, as well as laws and regulations that have an impact on the ethical care of a patient. They will determine the challenges to be overcome in terms of access to health based on social determinants. The program aims to develop students' skills in project and health information management. Graduates of this program can hold managerial and administrative positions in organizations related to the healthcare industry.

PROGRAM COMPETENCIES

1. Apply critically and creatively the theoretical foundations and models related to the administration of health care organizations for the formulation of alternatives that generate value to the organization.
2. Demonstrate leadership and assertive communication skills in solving problems of various levels of complexity to establish and defend their arguments orally and in writing.
3. Develop strategies aimed at the preservation and management of patient care data for decision-making to improve the quality of services in organizations.
4. Employ technological and computer resources for the use, management, and processing of diverse information in the operation of any type of health care organization.
5. Interpret legal aspects and ethical principles in operational processes related to the administration of health services.

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- Value individual uniqueness, cultural diversity, and human needs in the administration of health care organizations.

Graduation Requirements:

- Have achieved a minimum GPA of 3.00 or more.

**MASTER'S DEGREE IN BUSINESS ADMINISTRATION
WITH A SPECIALTY IN HEALTH ORGANIZATION MANAGEMENT**

CURRICULAR STRUCTURE

CORE COURSES

Prescribed: 24 credits

COURSE	CODE	COURSE NAME	CONTACT HOURS	CREDITS
MBA	5000	Organizational Behavior	45	3
MBA	5010	Marketing Management	45	3
MBA	5020	Managerial Economics	45	3
MBA	5040	Managerial Accounting	45	3
MBA	5050	Managerial Finance	45	3
MBA	6000	Business Administration Integrating Seminar	45	3
REME	5100	Research Methodology	45	3
STAT	5210	Statistics	45	3

Sub-Total: **360 hours** **24 credits**

MAJOR COURSES

Prescribed: 15 credits

COURSE	CODE	COURSE NAME	CONTACT HOURS	CREDITS
HEMA	6010	Fundamentals of Health Care Management	45	3
HEMA	6015	Health Planning and Policies	45	3
HEMA	6020	Legal and Ethical Issues in Health Care Management	45	3
HEMA	6030	Health Information Management	45	3
HEMA	6040	Project Management in Health Care Organizations	45	3

Sub-total: **225 hours** **15 credits**

The curricular structure of the master's degree in business administration with specialty in Health Organization Management includes the following components:

COMPONENT	HOURS	CREDITS
Core Courses	360	24
Major Courses	225	15
Total	585	39

**MASTER'S DEGREE IN BUSINESS ADMINISTRATION
WITH A SPECIALTY IN HEALTH ORGANIZATION MANAGEMENT
CURRICULUM SEQUENCE**

COURSE	CODE	COURSE NAME	PRE REQUISITES	CREDITS
FIRST TERM: 12 CREDITS				
MBA	5000	Organizational Behavior	----	3
MBA	5010	Marketing Management	----	3
MBA	5020	Managerial Economics	----	3
HEMA	6010	Fundamentals of Health Care Management	----	3
SECOND TERM: 12 CREDITS				
MBA	5040	Managerial Accounting		3
HEMA	6015	Health Planning and Policies	HEMA 6010	3
STAT	5210	Statistics	----	3
HEMA	6020	Legal and Ethical Issues in Health Care Management	----	3
THIRD TERM: 15 CREDITS				
MBA	5050	Managerial Finance	----	3
HEMA	6030	Health Information Management	----	3
REME	5100	Research Methodology	----	3
HEMA	6040	Project Management in Health Care Organizations	----	3
MBA	6000	Business Administration Integrating Seminar	MBA 5050	3

Grand Total of the master's degree in business administration with specialty in Health Organization Management: 39 credits and 585 hours

** The student does not necessarily have to follow the suggested course order, but the order helps them complete their degree in the stipulated time. The student must be aware of taking the courses that have prerequisites in an order that allows them to continue taking the other courses without problems. Courses without prerequisites have no specific order. The student can register for them in the term that they are offered.

MINIMUM QUALIFICATION POLICY

Students enrolled in the master's degree in business administration with specialty in Health Organization Management must obtain at least a grade of B when passing all courses.

Page 222-231, Proceeds to disclose changes to the Master Degree in in Nursing with a specialty in Adults and the Elderly with a role in Management or Education in CCU's School of Health Sciences:

MASTER'S DEGREE OF SCIENCE IN NURSING WITH A SPECIALTY IN ADULTS AND THE ELDERLY WITH A ROLE IN MANAGEMENT OR EDUCATION

CIP Code: 51.3802

SOC Code: 11-9111, 29-1141

Credits: 36 credits

Duration: 1 year

Location: Caguas

Modality of Study: On ground and Online

The master's degree in Nursing with a specialization in Adults and the Elderly (role in Education or Management) aims to prepare students as nursing specialists who are able to apply advanced nursing concepts and clinical judgment, grounded in scientific principles for decision-making at various levels of health prevention. Graduates of this program will be capable of practicing as nurses in various healthcare institutions, both public and private. They will successfully and excellently take on present and future challenges in the field of nursing through planning, implementing, and evaluating effective and efficient interventions focused on the quality and safety of healthcare services for diverse populations. Additionally, students will develop leadership skills, with a strong understanding of human values, in their involvement in the treatment and rehabilitation of individuals, families, and community groups.

PROGRAM COMPETENCIES

1. Practice nursing using theoretical knowledge and established procedures in the profession, based on recent research findings, and focusing on the selected area of specialty.
2. Demonstrate leadership in delivering healthcare and rehabilitation services, as well as oral and written communication strategies, focused on establishing effective therapeutic relationships with clients and the interdisciplinary team.
3. Analyze logically and critically information and procedures related to the administration of nursing services, decision-making, and case evaluation for the care of individuals, families, and communities, according to the area of specialization.

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4. Interpret qualitative and quantitative information to innovate procedures and identify needs aimed at maintaining health, participating in various treatments, and rehabilitating individuals, families, and community groups.
 5. Responsibly utilize emerging trends in technology for personal and professional development, performing more effective and efficient interventions, and publishing original research.
 6. Demonstrate ethical and moral judgment and compliance with laws and regulations in nursing practice, as well as responsibility in contributing to public policies that improve, promote, and protect the rights and healthcare services of individuals, families, and communities.
 7. Promote respect for diversity and the protection of the rights of individuals, families, and the community in the development and provision of high-quality healthcare services.

ADDITIONAL ADMISSION REQUIEREMENTS:

1. Have a bachelor's degree in Nursing.
2. Present evidence of a current license as a General Nurse.
3. As it is a single academic program with two approved roles, the student must select the role of interest for admission.

INTERSHIP REQUIREMENTS:

1. Negative Criminal Record Certificate
2. Health Certificate
3. HIPAA Law Certificate
4. Hepatitis B Vaccines (3 doses) If it has been more than 10 years since it was received, a blood test is required to prove immunity.
5. Cardiopulmonary Resuscitation (CPR) Certification
6. Seal and fit test*
7. Influenza vaccine*
8. Varicella vaccine (2 doses). If you have had chicken pox, a blood test or varicella titer test is required to prove immunity.
9. Negative certification of Law 300 – Law of Verification of Credentials and Criminal History of Providers to Children, People with Disabilities, and Health Professionals.
10. Generalist membership issued by the Puerto Rico Nursing Examining Board in force
11. General Nurse License
12. Covid vaccine
13. Any other test required by the practice center

*Important Note: Some practice centers may require additional documents.

GRADUATION REQUIREMENTS:

1. Have achieved a minimum GPA of 3.00 or more.

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**MASTER'S DEGREE OF SCIENCE IN NURSING WITH A SPECIALTY IN ADULTS
AND THE ELDERLY WITH A ROLE IN MANAGEMENT OR EDUCATION**

CURRICULAR STRUCTURE

CORE COURSES

Prescribed: 18 credits

COURSE	CODE	COURSE NAME	CONTACT HOURS	CREDITS
NURS	5200	Advanced Pathophysiology	45	3
NURS	5210	Advanced Pharmacology	45	3
NURS	5220	Advanced Physical Exam	45	3
NURS	5111	Advanced Nursing Research Proposal	45	3
NURS	5212	Advanced Nursing Research Project	45	3
STAT	5210	Statistics	45	3

Sub-Total: 270 hours 18 credits

MAJOR COURSES

Prescribed: 9 credits

COURSE	CODE	COURSE NAME	CONTACT HOURS	CREDITS
NURS	6100	Advanced Care of Adults and the Elderly I	45	3
NURS	6110	Advanced Care of Adults and the Elderly II	45	3
NURS	6120	Advanced Care of Adults and the Elderly III	45	3

Sub-total: 135 hours 9 credits

EDUCATION ROLE COURSES

Prescribed: 9 credits

COURSE	CODE	COURSE NAME	CONTACT HOURS	CREDITS
NURS	6140	Teaching and Learning Strategies in Nursing	45	3
NURS	6170	Teaching Processes in Nursing Education	45	3
NURS	6190P*	Teaching Practice in Nursing Education	105	3

Sub-total: 195 hours 9 credits

MANAGEMENT ROLE COURSES

Prescribed: 9 credits

COURSE	CODE	COURSE NAME	CONTACT HOURS	CREDITS
NURS	6050	Human Resources Development in Nursing Management	45	3
NURS	6160	Administrative Processes in Nursing Services	45	3
NURS	6180P*	Administrative Practice in Nursing Services	105	3

Sub-total: 195 hours 9 credits

Notes: Courses marked with an asterisk (*) have an on-ground component, regardless of the study modality of the program. As it is a single academic program with two approved roles, the student must select the role of interest for admission.

The curricular structure of the master's degree in science in nursing with specialty in Adults and the Elderly (Role in Education or Management) includes the following components:

COMPONENT	HOURS	CREDITS
Core Courses	270	18
Major Courses	135	9
Education or Management Role Courses	195	9
Total	600	36

**MASTER'S DEGREE OF SCIENCE IN NURSING WITH A SPECIALTY IN ADULTS
AND THE ELDERLY (ROLE IN EDUCATION)**

CURRICULUM SEQUENCE

COURSE	CODE	COURSE NAME	PRE-REQUISITES	CREDITS
FIRST TERM: 12 CREDITS				
NURS	5200	Advanced Pathophysiology	----	3
NURS	5210	Advanced Pharmacology	----	3
STAT	5210	Statistics	----	3
NURS	5220	Advanced Physical Exam	----	3
SECOND TERM: 12 CREDITS				
NURS	5111	Advanced Nursing Research Proposal	STAT 5210	3
NURS	6100	Advanced Care of Adults and the Elderly I	NURS 5200 NURS 5210 NURS 5220	3
NURS	6140	Teaching and Learning Strategies in Nursing	----	3
NURS	5112	Advanced Nursing Research Project	STAT 5210 NURS 5111	3
THIRD TERM: 12 CREDITS				
NURS	6110	Advanced Care of Adults and the Elderly II	NURS 5200 NURS 5210 NURS 5220	3
NURS	6120	Advanced Care of Adults and the Elderly III	NURS 5200 NURS 5210 NURS 5220	3
NURS	6170	Teaching Processes in Nursing Education	----	3
NURS	6190P*	Teaching Practice in Nursing Education	NURS 5112 NURS 6160	3

Notes: Courses marked with an asterisk (*) have an on-ground component, regardless of the study modality of the program. As it is a single academic program with two approved roles, the student must select the role of interest for admission.

Grand Total of the master's degree of science in nursing with a specialty in adults and the elderly (role in education or management): 36 credits and 600 hours

** The student does not necessarily have to follow the suggested course order, but the order helps them complete their degree in the stipulated time. The student must be aware of taking the courses that have prerequisites in an order that allows them to continue taking the other courses without problems. Courses without prerequisites have no specific order. The student can register for them in the term that they are offered.

MINIMUM GRADING POLICY

Students enrolled in the master's degree of science in nursing with a specialty in adults and the elderly (role in education or management) must obtain at least a grade of B when passing all courses.

**MASTER'S DEGREE OF SCIENCE IN NURSING WITH A SPECIALTY IN ADULTS
AND THE ELDERLY (ROLE IN MANAGEMENT)**

CURRICULUM SEQUENCE

COURSE	CODE	COURSE NAME	PRE-REQUISITES	CREDITS
FIRST TERM: 12 CREDITS				
NURS	5200	Advanced Pathophysiology	----	3
NURS	5210	Advanced Pharmacology	----	3
STAT	5210	Statistics	----	3
NURS	5220	Advanced Physical Exam	----	3
SECOND TERM: 12 CREDITS				
NURS	5111	Advanced Nursing Research Proposal	STAT 5210	3
NURS	6100	Advanced Care of Adults and the Elderly I	NURS 5200 NURS 5210 NURS 5220	3
NURS	6160	Administrative Processes in Nursing Services	----	3
NURS	5112	Advanced Nursing Research Project	STAT 5210 NURS 5111	5112
THIRD TERM: 12 CREDITS				
NURS	6110	Advanced Care of Adults and the Elderly II	NURS 5200 NURS 5210 NURS 5220	3
NURS	6120	Advanced Care of Adults and the Elderly III	NURS 5200 NURS 5210 NURS 5220	3
NURS	6050	Human Resources Development in Nursing Management	----	3
NURS	6180P*	Administrative Practice in Nursing Services	NURS 5112 NURS 6160	3

Notes: Courses marked with an asterisk (*) have an on-ground component, regardless of the study modality of the program. As it is a single academic program with two approved roles, the student must select the role of interest for admission.

Grand Total of the master's degree of science in nursing with a specialty in adults and the elderly (role in education or management): 36 credits and 600 hours

** The student does not necessarily have to follow the suggested course order, but the order helps them complete their degree in the stipulated time. The student must be aware of taking the courses that have prerequisites in an order that allows them to continue taking the other courses without problems. Courses without prerequisites have no specific order. The student can register for them in the term that they are offered.

MINIMUM GRADING POLICY

Students enrolled in the master's degree of science in nursing with a specialty in adults and the elderly (role in education or management) must obtain at least a grade of B when passing all courses.

ASSOCIATE DEGREE IN AUDIO

CIP Code: 10.0203

SOC Code: 27-4011, 27-4014

Credits: 64 credits

Duration: 80 weeks (1 year and 8 months)

Location: Caguas

Modality of Study: On ground and Online

The Associate Degree in Audio will prepare students with the necessary competencies for recording, synchronizing, producing, mixing, and restoring sound. In addition, students will develop skills in crafting and creating audio proposals for multimedia, and in managing the legal and business aspects of the profession. Furthermore, they will apply their knowledge in the use of new technologies for managing recorded and live audio, as well as in musical appreciation and expression. Graduates of this program will be able to work as audio technicians in various settings.

PROGRAM COMPETENCIES

1. Apply conceptual and technical knowledge to the production or modification of audio products, audiovisual works, or innovative media content.
2. Utilize critical thinking and analysis in the application of various aesthetic and structural patterns for creating, developing, and modifying audio products, audiovisual works, or media products according to the needs of clients.
3. Employ effective communication and interpersonal skills in their interaction with colleagues and clients through the correct use of oral and written language.
4. Integrate technical and computer skills effectively in the management of analog and digital audio, as part of the planning, production, and distribution of audio and media materials, as well as in research specific to their professional field.
5. Demonstrate teamwork and leadership skills, as well as social and moral commitment, responsibility, and respect for diversity, in the practice of their profession.

Additional program requirement:

1. Orientation with the Academic Coordinator

Graduation Requirements:

1. Have achieved a minimum GPA of 2.50 in concentration courses.
2. Have achieved a minimum GPA of 2.00 or more.

**CURRICULAR STRUCTURE
GENERAL EDUCATION COURSES****Prescribed: 19 credits**

COURSE	CODE	COURSE NAME	CONTACT HOURS	CREDITS
ENGL	1010	Basic English I	45	3
ENGL	1020	Basic English II	45	3
ITTE	1031L	Computer Literacy and Laboratory	60	3
SEMI	1010	Transition to University Life and Professional Training Seminar	15	1
SOSC	1010	Social Sciences I	45	3
SPAN	1010	Basic Spanish I	45	3
SPAN	1020	Basic Spanish II	45	3

Sub-Total:**300 hours****19 credits****CONCENTRATION COURSES****Prescribed: 45 credits**

COURSE	CODE	COURSE NAME	CONTACT HOURS	CREDITS
AUDI	1000L	Introduction to Audio Software and Laboratory	60	3
AUDI	1010L	Sound Appreciation and Laboratory	60	3
AUDI	1020	Music Industry	45	3
AUDI	1030L	Audio Recording and Laboratory	60	3
AUDI	1040L	Audio Recording and Synchronization in Midi and Laboratory	60	3
AUDI	1050L	Audio Production and Laboratory	60	3
AUDI	1060L	Live Audio and Laboratory	60	3
AUDI	2000L	Audio For Podcasting, Radio, and Television and Laboratory	60	3
AUDI	2010L	Production With Digital Audio Workstations (DAW) and Laboratory	60	3
AUDI	2020L	Mixing With Digital Audio Workstations (DAW) and Laboratory	60	3

COURSE	CODE	COURSE NAME	CONTACT HOURS	CREDITS
AUDI	2030L	Audio Mastering and Restoration and Laboratory	60	3
AUDI	2040L	Applied Electronics in Audio and Laboratory	60	3
AUDI	2050L	Musical Appreciation and Laboratory	60	3
AUDI	2060L	Audio Synchronization for Film and Laboratory	60	3
AUDI	3000P	Audio Practice and Laboratory	120	3
Sub-total:			945 hours	45 credits

The curricular structure of the associate degree in Audio includes the following components:

COMPONENT	HOURS	CREDITS
General Education Courses	300	19
Concentration Courses	945	45
Total	1,245	64

**ASSOCIATE DEGREE IN AUDIO
CURRICULUM SEQUENCE**

COURSE	CODE	COURSE NAME	PRE-REQUISITES	CREDITS
FIRST TERM: 12 CREDITS				
AUDI	1010L	Sound Appreciation and Laboratory	----	3
AUDI	1020	Music Industry	----	3
AUDI	1030L	Audio Recording and Laboratory	----	3
AUDI	1000L	Introduction to Audio Software and Laboratory	----	3
SECOND TERM: 13 CREDITS				
AUDI	1040L	Audio Recording and Synchronization in Midi and Laboratory	AUDI 1030L	3
AUDI	1050L	Audio Production and Laboratory	AUDI 1030L	3
ITTE	1031L	Computer Literacy and Laboratory	----	3
AUDI	1060L	Live Audio and Laboratory	AUDI 1030L	3
SEMI	1010	Transition to University Life and Professional Training Seminar	----	1
THIRD TERM: 12 CREDITS				
AUDI	2000L	Audio For Podcasting, Radio, and Television and Laboratory	AUDI 1030L	3
AUDI	2010L	Production With Digital Audio Workstations (DAW) and Laboratory	AUDI 1030L AUDI 1050L	3
AUDI	2020L	Mixing With Digital Audio Workstations (DAW) and Laboratory	AUDI 1030L AUDI 1050L	3
AUDI	2030L	Audio Mastering and Restoration and Laboratory	AUDI 1030L AUDI 1050L	3
FOURTH TERM: 12 CREDITS				
AUDI	2040L	Applied Electronics in Audio and Laboratory	AUDI 1030L AUDI 1050L	3
AUDI	2050L	Musical Appreciation and Laboratory	----	3
ENGL	1010	Basic English I	----	3
SPAN	1010	Basic Spanish I	----	3

FIFTH TERM: 15 CREDITS				
AUDI	2060L	Audio Synchronization for Film and Laboratory	AUDI 1030L AUDI 1050L	3
AUDI	3000P	Audio Practice and Laboratory	AUDI 1000L, AUDI 1010L, AUDI 1020L, AUDI 1030L, AUDI 1040L, AUDI 1050L, AUDI 1060L, AUDI 2000L, AUDI 2010L, AUDI 2020L, AUDI 2030L, AUDI 2040L	3
SOSC	1010	Social Sciences I	----	3
ENGL	1020	Basic English II	ENGL 1010	3
SPAN	1020	Basic Spanish II	SPAN 1020	3

Grand Total of the associate degree in Audio: 64 credits and 1,245 hours

** The student does not necessarily have to follow the suggested course order, but the order helps them complete their degree in the stipulated time. The student must be aware of taking the courses that have prerequisites in an order that allows them to continue taking the other courses without problems. Courses without prerequisites have no specific order. The student can register for them in the term that they are offered.

MINIMUM GRADING POLICY

Students enrolled in the associate degree in Audio must obtain at least a grade of C when passing the following courses:

- AUDI 1000L AUDI 1010L AUDI 1020 AUDI 1030L AUDI 1040L
 AUDI 1050L AUDI 1060L AUDI 2000L AUDI 2010L AUDI 2020L
 AUDI 2030L AUDI 2040L AUDI 2050L AUDI 2060L

Students enrolled in the associate degree in Audio must obtain at least a grade of B when passing the following course: AUDI 3000

ACADEMIC PROGRAMS COURSES DESCRIPTIONS

GENERAL EDUCATION

ENGL 1010 - Basic English I

In this course, the students will demonstrate proper use of the English language with a primary focus on syntax, grammar, punctuation, and spelling. Students will distinguish verb tenses in sentences and paragraphs. They will also produce clear, well-developed and well-organized sentences, messages, paragraphs, and short compositions using correct capitalization, punctuation and syntax. Students will also argue about various contexts, including reading and media materials on the Internet, short stories, and library resources.

3 credits

Prerequisite: None

Corequisite: None

ENGL 1020 - Basic English II

In this course students will enhance their listening, reading, writing, and speaking skills in English as a second language. Students will demonstrate an understanding of grammar elements, literature, and the development of writing, reading, listening, and speaking skills. Also, they will apply critical thinking skills in reading and writing.

3 credits

Prerequisite: ENGL 1010 Corequisite:

None

ITTE 1031L - Computer Literacy and Laboratory

In this course, students will analyze the usefulness of email, institutional databases, and computerized systems in their learning process, considering aspects of academic integrity. In addition, they will examine fundamental concepts related to internet services, security, privacy, and ethics, as well as core aspects of assistive technology. Furthermore, they will demonstrate technological competencies in various application programs, cloud storage, and web pages.

3 credits

Prerequisite: None

Corequisite: None

SEMI 1010 - Transition to University Life and Professional Training Seminar

In this course, students will develop essential skills for their training and transition from university life to their entry into the workforce. They will participate in learning experiences aimed at enhancing self-knowledge and exploring the possibilities of university studies and career paths. In addition, they will explain the competencies sought by employers with the support of available resources. Likewise, they will establish successful strategies for making progress in their academic program and for planning and entering the job market.

1 credit
Prerequisite: None
Corequisite: None

SOSC 1010 - Social Sciences I

In this course, students will examine the fundamental concepts of the social sciences, starting with the evolution and development of society. They will analyze issues related to various disciplines that comprise the social sciences, such as anthropology, sociology, and psychology. They will also evaluate social issues by applying critical judgment to current social issues. This course requires 10 hours of participation in community service-learning activities.

3 credits
Prerequisite: None
Corequisite: None

SPAN 1010 - Basic Spanish I

In this course, students will examine the basic spelling, grammar, and syntax rules when expressing themselves orally or in writing. Students will analyze a variety of literary genres in a critical and reflexive way. They will also apply the linguistic rules that govern oral and written communication.

3 credits
Prerequisite: None
Corequisite: None

SPAN 1020 - Basic Spanish II

In this course, students will critically analyze different literary genres such as poetry, theater, and novels. They will describe and illustrate their evolution, development, and characteristics. Furthermore, they will analyze the elements that differentiate investigative journalism from in-depth journalism. Students will also recognize the importance of public speaking and discourse as resources for effective communication. In addition, they will write and present a speech.

3 credits
Prerequisite: SPAN 1010
Corequisite: None

CORE AND SPECIALTY

AUDI 1000L Introduction to Audio Software and Laboratory

In this course, students will integrate high-quality audio into multimedia products. They will use digital programs and equipment for sound recording and postproduction. In addition, they will determine how sound is used in communication media to create a dynamic presentation of information. This course requires the use of the laboratory.

3 credits (30 hours of theory and 30 hours of laboratory)
Prerequisite: None
Corequisite: None

AUDI 1010L Sound Appreciation and Laboratory

In this course, students will apply theoretical and practical concepts related to musical appreciation from a multicultural perspective. They will examine sound properties and their relation to auditory perception. Furthermore, they will differentiate structural and formal aspects of musical compositions, along with the voices and instruments used in them. This course requires the use of the laboratory.

3 credits (30 hours of theory and 30 hours of laboratory)

Prerequisite: None

Corequisite: None

AUDI 1020 Music Industry

In this course, students will analyze the legal, economic, artistic and ethical aspects essential for the professional development of an audio technician. They will use various techniques and methodologies for solving problems associated with their profession. In addition, they will develop the administrative and cultural management skills necessary in the music industry.

3 credits (45 hours of theory)

Prerequisite: None

Corequisite: None

AUDI 1030L Audio Recording and Laboratory

In this course, students will apply theoretical and practical concepts in audio recording, acoustic design, and the operation of analog and digital consoles. They will also use modern techniques for sound recording. Furthermore, they will examine various tools and processes used in the industry. This course requires the use of the laboratory.

3 credits (30 hours of theory and 30 hours of laboratory)

Prerequisite: None

Corequisite: None

AUDI 1040L Audio Recording and Synchronization in MIDI and Laboratory

In this course, students will develop the skills necessary to work with the Musical Instrument Digital Interface (MIDI) protocol, from capturing the original source to the final composition. They will also use MIDI sequencing and editing tools. Additionally, they will demonstrate knowledge of score editing and virtual instrument management in music production. The course requires the use of the laboratory.

3 credits (30 hours of theory and 30 hours of laboratory)

Prerequisite: AUDI 1030L

Corequisite: None

AUDI 1050L Audio Production and Laboratory

In this course, students will analyze different musical styles and the artistic revolution in the international record market. They will reflect on relevant factors in the recording process, such as psychological and communication aspects in the interaction with musicians. In addition, they will manage technological resources for audio production. This course requires the use of the laboratory.

3 credits (30 hours of theory and 30 hours of laboratory)

Prerequisite: AUDI 1030L

Corequisite: None

AUDI 1060L Live Audio and Laboratory

In this course, students will apply technical, theoretical, and practical knowledge in the sound design of live performances. They will develop skills in the coordination and planning of these events. Furthermore, they will manage all aspects related to the setup and adjustment of sound systems according to the required technical specifications for quality and safety. This course requires the use of the laboratory.

3 credits (30 hours of theory and 30 hours of laboratory)

Prerequisite: AUDI 1030L

Corequisite: None

AUDI 2000L Audio for Podcasting, Radio, and Television and Laboratory

In this course, students will develop skills in the use of audio equipment and tools for designing, writing, and producing messages for dissemination on radio, television, and digital platforms. They will also conceptualize images and sound effects for use in these media. Furthermore, they will apply effective production techniques. This course requires the use of the laboratory.

3 credits (30 hours of theory and 30 hours of laboratory)

Prerequisite: AUDI 1030L

Corequisite: None

AUDI 2010L Production with Digital Audio Workstations (DAW) and Laboratory

In this course, students will apply audio composition, sequencing, recording, editing, and mixing skills using digital audio workstations (DAW) such as Pro Tools (MP, LE, and HD), and Nuendo. They will manage various aspects of their configuration, such as window structure and commands, main tools, and session settings. Additionally, they will use MIDI sequencing and editing tools, as well as score editing and virtual instrument management. This course requires the use of the laboratory.

3 credits (30 hours of theory and 30 hours of laboratory)

Prerequisite: AUDI 1030L, AUDI 1050L

Corequisite: None

AUDI 2020L Mixing with Digital Audio Workstations (DAW) and Laboratory

In this course, students will use mixing techniques, methods, and processes in producing phonographic productions through digital audio workstations (DAW), Pro Tools, and Nuendo. They will also apply theoretical knowledge and computer skills in handling these tools. In addition, they will practice processes related to audio mixing. This course requires the use of the laboratory.

3 credits (30 hours of theory and 30 hours of laboratory)

Prerequisite: AUDI 1030L, AUDI 1050L

Corequisite: None

AUDI 2030L Audio Mastering and Restoration and Laboratory

In this course, students will examine the processes necessary for optimizing sound quality, such as equalization, compression, limiting, stereo image manipulation, and signal maximization. They will apply the necessary steps for audio mastering or restoration according to the characteristics of each project. Furthermore, they will evaluate sound based on various criteria. This course requires the use of the laboratory.

3 credits (30 hours of theory and 30 hours of laboratory)

Prerequisite: AUDI 1030L, AUDI 1050L

Corequisite: None

AUDI 2040L Applied Electronics in Audio and Laboratory

In this course, students will analyze the basic aspects of electronics applied to audio. They will also examine the cable configuration of different connectors and the continuity of cables in the implementation of audio circuits. In addition, they will explain the function of cables in an audio amplification circuit and in power over Ethernet (PoE) equipment, along with their possible modifications. This course requires the use of the laboratory.

3 credits (30 hours of theory and 30 hours of laboratory)

Prerequisite: AUDI 1030L, AUDI 1050L

Corequisite: None

AUDI 2050L Musical Appreciation and Laboratory

In this course, students will examine the history of music and the evolution of some of the most noteworthy musical genres over the years. They will also analyze the fundamental elements of music, including the rhythmic bases of various genres. Furthermore, they will assess the impact of music on society. This course requires the use of the laboratory.

3 credits (30 hours of theory and 30 hours of laboratory)

Prerequisite: None

Corequisite: None

AUDI 2060L Audio Synchronization for Film and Laboratory

In this course, students will analyze the use of sound in cinematic language. They will examine the creative and technical processes of sound production in film. In addition, they will practice sound capture (microphone placement), recording, editing, post-production, and mixing for film. This course requires the use of the laboratory.

3 credits (30 hours of theory and 30 hours of laboratory)

Prerequisite: AUDI 1030L, AUDI 1050L

Corequisite: None

AUDI 3000P Audio Practice and Laboratory

In this course, students will practice the sound management skills acquired throughout the program. They will apply competencies for communication with colleagues and clients, problem-solving, and equipment management in a professional environment. They will demonstrate their knowledge of musical appreciation, sound evaluation, and handling of ethical and legal aspects, as

well as the various processes associated with audio preparation and integration in multiple contexts at an external practice center. This course requires the use of the laboratory.

3 credits (30 hours of theory and 90 hours of practice)

Prerequisites: AUDI 1000L, AUDI 1010L, AUDI 1020L, AUDI 1030L, AUDI 1040L, AUDI 1050L, AUDI 1060L, AUDI 2000L, AUDI 2010L, AUDI 2020L, AUDI 2030L, AUDI 2040L

Corequisite: None

HEMA 6010 Fundamentals of Health Care Management

In this course, students will analyze the fundamentals of health care management and perspectives on providing health services. They will distinguish the types of health facilities, their structure, and their components, including the human capital that operates them under the leadership of the health care manager. In addition, they will value the importance of quality indicators in the development and revision of institutional policies, as well as of information systems for collecting data that facilitates the measurement of efficiency in the provision of health services.

3 credits

Prerequisite: None

Co-requisite: None

HEMA 6015 Health Planning and Policies

In this course, students will analyze the fundamentals related to the development of public policy for the solution or mitigation of problems that contribute to the prevalence and incidence of diseases in the population. They will interpret the challenges to health access based on social determinants and the management of comorbidities in the population for the development of federal and state public policy. Moreover, they will propose changes in the provision of health services according to the needs and problems identified in the population. Furthermore, they will design an institutional policy plan with an impact on the community based on public policy, including strategies for the improvement in the provision of services to patients.

3 credits

Prerequisite: None

Co-requisite: None

HEMA 6020 Legal and Ethical Issues in Health Care Management

In this course, students will examine laws and ethical issues associated with the healthcare industry. They will evaluate the civil legal and criminal issues related to the rendering of health services at the federal and state levels. Students will integrate ethical, legal, and industry-standard compliance principles into the decision-making process in health care management.

3 credits

Prerequisite: None

Co-requisite: None

HEMA 6030 Health Information Management

In this course, students will review the processes related to health information management. Likewise, they will evaluate how the acquisition, analysis, and security of digital and traditional medical information is vital to the quality of patient healthcare. Furthermore, students will examine how data relate to an individual's electronic health record, including symptoms, diagnoses, procedures, and results, as well as to the identification of secondary sources of health data and the interpretation of statistical data and classification systems.

3 credits

Prerequisite: None

Co-requisite: None

HEMA 6040 Project Management in Health Care Organizations

In this course, students will analyze the life cycle of a project and the theoretical basis of project management methodologies applicable to the health industry. They will establish the scope of a project manager's functions according to the activities needed for implementing or restructuring operations in medical facilities. Students will also justify the priorities for implementing projects and making decisions according to objective and measurable parameters. Likewise, they will organize the integration of project management methodologies for the successful execution of the entity's initiatives, based on the health and well-being of patients.

3 credits

Prerequisite: None

Co-requisite: None

HURE 6000 Human Resources Role in Organizations

In this course, students will develop a general understanding of the functions and activities related to human resources. They will strategically examine the employment life cycle, including talent acquisition, retention, and development. They will analyze the ethical aspects of the profession, the importance of effective communication to improve their management and their consultant role as a strategic partner of the company.

3 credits

Prerequisite: None

Co-requisite: None

HURE 6015 Total Compensation Strategy

In this course, students will demonstrate skills in designing and implementing total compensation strategies aligned with the organizational strategy. They will analyze existing compensation structures to recommend adjustments that respond to internal company needs or external market factors. They will create a total compensation strategy that attracts and retains the best talent.

3 credits

Prerequisites: HURE 6000

Co-requisite: None

HURE 6025 Employment Law

In this course, students will examine the fundamentals of federal and state labor law and its applicability in the field of human resources. They will analyze complex situations related to worker protection, harassment, and employment discrimination to identify and apply the main corresponding laws. The students will evaluate the relevance of labor laws in the development of the human resources strategic plan.

3 credits

Prerequisites: HURE 6000

Co-requisite: None

HURE 6035 People Analytics

In this course, students will examine the principles of collecting, analyzing, and interpreting data fundamental to human resources analytics. They will analyze the results of key performance indicators (KPIs) such as employee absenteeism and turnover, among others, to make strategic decisions about human resources management. Students will create action plans based on the interpretation of the results obtained to improve the processes related to human talent management in companies.

3 credits

Prerequisites: HURE 6000

Co-requisite: None

HURE 6045 Strategic Human Resources Management (Capstone)

In this course, students will examine the alignment of the business strategy with the human capital strategy within a company. They will analyze the role of managers in developing and implementing effective, efficient, and ethical human resources practices that support the strategic objectives of companies. Students will determine how human resources decisions contribute to organizational effectiveness and the competitive advantage of a company.

3 credits

Prerequisites: HURE 6000

Co-requisite: None

MANA 6000 Management and Strategic Leadership

In this course, students will develop skills for implementing hybrid management models, innovation, and diversity management. They will integrate innovation into the strategic planning process for operational decision-making and the development of high-performance organizational cultures. Likewise, they will evaluate managerial practices that strategically guide and facilitate change in response to contemporary leadership challenges, strengthening organizational resilience and sustainability.

3 credits

Prerequisite: None

Corequisite: None

MANA 6010 Ethical Leadership

In this course, students will value the importance of ethical leadership for decision-making and the long-term success of an organization. They will evaluate ethical dilemmas in organizations to make responsible decisions, considering different options, possible consequences, risk management, and appropriate actions in accordance with ethical and legal standards. Furthermore, they will apply measures to establish a strong organizational culture that values ethics in the workplace.

3 credits

Prerequisite: None

Corequisite: None

MANA 6020 Global Strategic Management

In this course, students will analyze the historical and conceptual evolution of global management, the impact of culture, and technological changes on the development and implementation of ethical and effective business strategies. They will determine the factors that contribute to the successful implementation of global business strategies, as well as various types of leadership and business structures. Additionally, they will evaluate the applicability of an optimal strategy for a business, considering the cultural, political, and economic factors that impact international expansion.

3 credits

Prerequisite: None

Corequisite: None

MANA 6030 Human Capital Management

In this course, students will evaluate the fundamentals and strategies for effectively identifying and planning human capital. They will develop skills for identifying and recruiting top talent. Additionally, they will compare available strategies for assessing needs and designing training and development programs, promoting employee engagement within the organization, and strategies for retaining human capital.

3 credits

Prerequisite: None

Corequisite: None

MBA 5000 Organizational Behavior

In this course, students will examine theories and concepts related to organizational behavior. They will develop skills that enable them to manage behavior in work groups, corporate culture, and their implications on organizational performance. Students will also analyze the relationship between motivation, communication, and conflict management, as well as the performance of individuals within an organization.

3 credits

Prerequisite: None

Corequisite: None

MBA 5010 Marketing Management

In this course, students will analyze market segmentation and brand positioning from a managerial approach. They will evaluate the challenges and opportunities in the environment for business decision-making. Students will develop marketing strategies based on market research.

3 credits

Prerequisite: None

Corequisite: None

MBA 5020 Managerial Economics

In this course, students will examine economic theories, their application in the business environment, and the analysis of the connections that exist between the company and its various areas with its economic environment. They will analyze production, costs, and consumer behavior as key elements in business decision making. They will evaluate market structures related to economic growth and stability.

3 credits

Prerequisite: None

Corequisite: None

MBA 5040 Managerial Accounting

In this course, students will analyze accounting as a tool for obtaining precise and relevant information. They will employ costing systems for selecting information and formulating effective strategies in problem solving. Furthermore, students will design profit and productivity maximization strategies to support decision-making.

3 credits

Prerequisite: None

Corequisite: None

MBA 5050 Managerial Finance

In this course, students will examine the fundamental concepts of managerial finance functions. They will analyze the financial statements of an organization to support its financial decision-making. Finally, students will evaluate the inherent risk in investment instruments as a basis for making both short-term and long-term financing decisions.

3 credits

Prerequisite: None

Corequisite: None

MBA 5240 Project Management and Administration

In this course, students will analyze the fundamental concepts of project management and how they impact organizational strategy. They will examine the processes in the project lifecycle for successful risk management, as well as the reporting of outcomes in terms of scope, time, and costs. In addition, students will integrate communication processes into the management and closure of projects.

3 credits

Prerequisite: None

Corequisite: None

MBA 6000 Business Administration Integrating Seminar

In this course, students will demonstrate a company's competitive competencies and strategies in order to obtain annual operating profits, a competitive contribution margin, and a growth in share value that solidifies its position in the market through the role of a senior management executive. They will develop effective strategies for managing inventories based on the metrics used by a company for promoting market success and avoiding incurring losses for operational losses. Students will prepare detailed written and oral reports to communicate their analysis and justify their decisions to a company's stakeholders. This course utilizes a simulator to complete practical exercises.

3 credits

Prerequisites: MBA 5050

Corequisite: None

NURS 5111 Advanced Nursing Research Proposal

In this course, students will assess the importance of research and the integration of the scientific method into nursing practice. They will incorporate advanced concepts of quantitative or qualitative research in problem-solving. Additionally, they will design a project based on an identified need in nursing practice.

3 credits

Prerequisites: STAT 5210

Corequisite: None

NURS 5112 Advanced Nursing Research Project

In this course, students will develop a research project based on literature review or meta-analysis of a problem identified in the nursing field. They will integrate ethical principles of the profession when addressing issues in nursing practice. Furthermore, they will value advanced nursing knowledge and evidence-based practice concepts.

3 credits

Prerequisites: NURS 5111

Corequisite: None

NURS 5200 Advanced Pathophysiology

In this course, students will analyze high-incidence pathological processes throughout the lifespan. They will interpret regulatory and compensatory mechanisms related to the most prevalent diseases. Additionally, they will establish the relationship between normal physiology and specific alterations caused by injuries or diseases through the application of critical thinking.

3 credits

Prerequisites: None

Corequisite: None

NURS 5210 Advanced Pharmacology

In this course, students will analyze the effects of drugs and the general categories of pharmacological agents by applying advanced pharmacology knowledge. Moreover, they will evaluate drug action principles, pharmacokinetics, and pharmacotherapy in the context of advanced nursing practice. They will integrate research findings, evidence-based practices, and ethical-legal considerations in assessing the most common drug classifications, indications, and expected therapy outcomes.

3 credits

Prerequisites: None

Corequisite: None

NURS 5220 Advanced Physical Exam

In this course, students will determine criteria for health assessment and promotion throughout the lifespan in a safe, competent, and comprehensive manner. They will employ advanced diagnostic reasoning, communication, and physical assessment skills to identify changes in acute and chronic health patterns. They will apply processes for detailed information collection, with a systematic approach to health assessment and physical examination, while also differentiating, interpreting, and documenting physical, biological, and psychosocial data throughout the lifespan concerning normal findings and potential alterations.

3 credits

Prerequisites: None

Corequisite: None

NURS 6050 Human Resources Development in Nursing Management

In this course, students will develop the skills and knowledge necessary for effective nursing staff management. They will implement planning, recruiting, selection, retention, and formation practices for the personnel they manage. They will also analyze the labor laws regulating the nursing practice and the management of employee relations.

3 credits

Prerequisites: None

Corequisite: None

NURS 6100 Advanced Care of Adults and the Elderly I

In this course, students will assess the needs of adult and elderly patients to justify advanced nursing interventions. They will analyze pathophysiological principles, therapeutic pharmaceuticals, theories, and research applicable to health conditions affecting the population. Students will integrate advanced nursing knowledge and required skills according to their selected role in education or administration.

3 credits

Prerequisites: NURS 5200, NURS 5210, NURS 5220

Corequisite: None

NURS 6110 Advanced Care of Adults and the Elderly II

In this course, students will analyze various health problems, trends, and indicators that define health status. They will examine research on health conditions affecting individuals, applying concepts and different theories. Additionally, they will critically evaluate the nursing process by applying knowledge acquired in pathophysiology, pharmacology, and physical assessment to promote and restore health in clinical practice.

3 credits

Prerequisites: NURS 5200, NURS 5210, NURS 5220

Corequisite: None

NURS 6120 Advanced Care of Adults and the Elderly III

In this course, students will analyze various health problems, trends, and indicators that define health status. They will examine research on health conditions affecting individuals, applying concepts and different theories. Additionally, they will critically evaluate the nursing process by applying knowledge acquired in pathophysiology, pharmacology, and physical assessment to promote and restore health in clinical practice.

3 credits

Prerequisites: NURS 5200, NURS 5210, NURS 5220

Corequisite: None

NURS 6140 Teaching and Learning Strategies in Nursing

In this course, students will design and adapt meaningful lessons for multiple learning environments. They will also examine how to effectively integrate technology tools. They will design lessons that meet the diverse learning needs of students.

3 credits

Prerequisites: None

Corequisite: None

NURS 6160 Administrative Processes in Nursing Services

In this course, students will analyze theories of management, administration, leadership, human behavior, staffing patterns, budgets, and their application to management and leadership in the Department of Nursing. They will analyze various methods of problem-solving, decision-making, planning, organization, direction, and evaluation of outcomes. Furthermore, they will apply management and human behavior concepts to promote individual health.

3 credits

Prerequisites: None

Corequisite: None

NURS 6170 Teaching Processes in Nursing Education

In this course, students will analyze the educational process in nursing and the role of faculty in higher education, including their rights, responsibilities, and the ethical-legal aspects governing educational practice. They will examine the theoretical foundations of the teaching-learning process, as well as strategies for promoting critical thinking and active learning to achieve learning goals. Furthermore, they will apply teaching and learning processes, integrating various media,

multimedia materials, and information resources. Likewise, they will integrate assessment processes and strategies to measure learning outcomes.

3 credits

Prerequisites: None

Corequisite: None

NURS 6180P Administrative Practice in Nursing Services

In this course, students will apply the knowledge and skills necessary for nursing services management. They will employ the administrative process as a tool for applying concepts of leadership, management, problem-solving methods, decision-making, planning, organization, human resources, direction, control, and professional and social trends in various clinical settings. Additionally, they will develop scientifically based management strategies to address continuous changes in healthcare services with an ethical and compassionate focus.

3 credits

Prerequisites: NURS 6100, NURS 6160

Corequisite: NURS 6010, NURS 6020, NURS 6050

NURS 6190P Educational Practice in Nursing Education

In this course, students will apply methods, strategies, models, concepts, principles, and assessment techniques in classroom and clinical settings within higher nursing education. They will develop innovative teaching strategies to foster student learning in both the classroom and the laboratory. Furthermore, they will evaluate components of nursing education curricula.

3 credits

Prerequisites: NURS 5112, NURS 6100, NURS 6140

Corequisite: NURS 6110, NURS 6120, NURS 6170

REME 5100 Research Methodology

In this course, students will examine the research process as a means of finding solutions to business problems. Additionally, they will identify the methods, designs, principles, and instruments used in a research study. They will develop skills for the application of research methodologies through the critical analysis of published research studies.

3 credits

Prerequisite: None

Corequisite: None

STAT 5210 Statistics

In this course, students will analyze descriptive statistics and its key concepts, as well as the presentation, interpretation, and graphical representation of data. They will explain the nature of probability distribution and its application in practical situations. In addition, students will apply hypothesis testing using different techniques such as ANOVA and the concepts of linear regression and multiple regression in the solution of problems.

3 credits

Prerequisite: None

Corequisite: None