

SAGRADO

Universidad del Sagrado Corazón

SUMMER 2022 | Course offerings for June 29 to July 27, 2022

Academic Calendar

June 28 | Deadline for registration, changes, or cancellations of summer courses for this term until 5:00 p.m. without penalties.

June 29 | Classes begin. Only day to drop tuition with a 100% refund on the cost of credits and labs. Fees are non-refundable. Deadline for tuition payment

June 30 | University cancels enrollment of students with outstanding balances after applying the financial aid. Students' attendance census period ends.

July 4 | Holiday - U.S. Independence Day - No classes

July 25 | Holiday - Constitution Day - No classes

July 26 | Last day of classes. Last day of partial and total withdrawals.

July 27 | Final exams day

July 29 | Grade reporting is available

Meeting Types

All courses are recorded and supported by Canvas LMS.

Face-to-face | Courses meet on the scheduled days on campus. Students must physically attend the classroom. Not transmitted via Zoom.

Flexible face-to-face | Courses meet on the scheduled days on campus, but the student can attend in person or connect via Zoom.

Hybrid | Courses meet on campus on specific days and are 50% offered through Canvas asynchronously. Students must physically attend sessions on campus. Not transmitted via Zoom.

Videoconference | Courses meet exclusively via Zoom on the scheduled days.

Hybrid virtual | Courses meet via Zoom on specific days and are 50% offered through Canvas asynchronously.

Online | Courses are offered 100% asynchronously through Canvas.

ARTS, DESIGN, AND CREATIVE INDUSTRIES COURSES

Course: ART 116 001 VISUAL LANGUAGE AND THINKING

Credits: 3

Lab Fee: \$100

Meet Type: On-campus

Professor: MIGDALIA UMPIERRE

Days: (MKWTF)

Monday/Tuesday/Wednesday/Thursday/Friday

Time: 10:30 am - 1:20 pm

Date: 06/29/2022 - 07/27/2022

Description: Introductory workshop in which the fundamentals of visual communication and the expressive resources of design are studied using manual and digital procedures. Students are introduced to the understanding and solution of problems in the visual and functional fields of art, providing key tools to develop creativity and conceptualize artistic proposals.

Course: PME 210 081 STAGE RIGGING, LIGHTS, AND SOUND TECHNIQUES

Credits: 3

Lab Fee: \$75

Meet Type: On-campus

Professor: MYRNA A. RIVERA

Days: (MKWTF)

Monday/Tuesday/Wednesday/Thursday/Friday

Time: 5:30 PM - 8:20 PM

Date: 06/29/2022- 07/27/2022

Description: This course studies the techniques and procedures related to the areas of stage rigging, lights, and sound. Students will analyze aspects such as stage platforms, temporary structures, pyrotechnic effects, assembly logistics, and interpretation of blueprints. The course emphasizes OSHA regulations, worksite fire-prevention department, and performance requirements for shows.

SCIENCES AND HEALTH COURSES

Course: BIO 112 001 GENERAL BIOLOGY II

Credits: 4

Lab Fee: \$110

Meet Type: On-campus

Professor: EDUARDO L. TOSADO

Days: (MKWTF)

Monday/Tuesday/Wednesday/Thursday/Friday

Time: 7:30 AM - 10:20 AM

Date: 06/29/2022 - 07/27/2022

Description: This course has an approach that allows the formation and integral development of the student of the Natural Sciences program. The principles of population genetics and evolution, the classification of plants and animals, the comparative study of organic systems in animals, and the structure and function of plants, ecology, and tropical ecosystems are studied in this course. This course includes theory and laboratory practices.

Course: BIO 112L 051 GENERAL BIOLOGY II - LAB

Credits: 0

Lab Fee: N / A

Meet Type: On-campus

Time: 11:00 AM - 1:50 PM

Professor: EDUARDO L. TOSADO

Date: 07/03/2022 - 08/13/2022

Days: (MKWTF)

Monday/Tuesday/Wednesday/Thursday/Friday

Description: A required laboratory for the BIO 112 course.

Course: BIO 310 001 HUMAN PHYSIOLOGY

Credits: 4

Lab Fee: \$100

Days: (MKWTF)

Meet Type: Flexible face-to-face

Monday/Tuesday/Wednesday/Thursday/Friday

Professor: LUIS A. GRACIA RUIZ

Time: 7:30 AM - 10:20 AM

Date: 06/29/2022 - 07/27/20

Description: Physiological principles that govern the functioning of the systems that compose the human organism are discussed. Basic concepts of cellular physiology and the tissues that compose the organs are presented. The physiological principles that govern the function of the different organs and systems of the body are discussed. It explains how the physiology of the other systems is integrated to provide responses to different physiological conditions and maintain homeostasis for the student to have a broader knowledge of the body's functioning. Some principles of the physiopathology of the systems studied are discussed. This course is intended for students' general training in health. The course consists of lectures and class discussions integrating laboratory experiences related to the topics covered. Ethical aspects related to health professions and biomedical research are analyzed.

Course: BIO 310L 051 HUMAN PHYSIOLOGY - LAB

Credits: 0

Lab Fee: N / A

Meet Type: Flexible face-to-face

Professor: LUIS A. GRACIA RUIZ

Days: (MKWTF)

Monday/Tuesday/Wednesday/Thursday/Friday

Time: 11:00 AM - 1:50 PM

Date: 06/29/2022 - 07/27/2022

Description: A required laboratory for the BIO 310 course.

Course: CFI 101 001 SOCIAL AND PSYCHOLOGICAL ASPECTS OF PHYSICAL ACTIVITY

Credits: 3

Lab Fee: N / A

Meet Type: Hybrid face-to-face

Professor: LUISA F. VÉLEZ COLÓN

Days: (MKWTF)

Monday/Tuesday/Wednesday/Thursday/Friday

Time: 7:30 AM - 10:20 AM

Date: 06/29/2022 - 07/27/2022

Description: The course offers a theoretical explanation of different psychological aspects that affect physical activities and sports participation. Some discussion topics are recreation, women in sports, coaching, and performance improvement. Likewise, the course offers an in-depth analysis of research studies and introduces the use of appropriate techniques for the evaluation and prevention of socio-psychological situations affecting athletes.

Course: FIS 204 001 GENERAL PHYSICS II

Credits: 4

Lab Fee: \$100

Meet Type: Videoconference

Professor: ROLANDO GUZMÁN

Days: (MKWTF)

Monday/Tuesday/Wednesday/Thursday/Friday

Time: 7:30 AM - 10:20 AM

Date: 06/29/2022 - 07/27/2022

Description: This course is the continuation of General Physics 1. This course is also developed in a theoretical and experimental way where the active learning methodology is used for science students to acquire knowledge about oscillations and waves, geometrical optics, as well as electromagnetic nature, which are described as follows: oscillations and waves, principles of electricity and magnetism, electric force and potential, Gauss' Law, capacitance and dielectric materials, current and resistance, direct current circuits, magnetic forces and fields, Ampere's and Faraday's Laws, inductance and alternating current circuits, electromagnetic waves, and geometric optics.

Course: FIS 204 002 GENERAL PHYSICS II

Credits: 4

Lab Fee: \$80

Meet Type: On-campus

Professor: JAVIER WU LI

Days: (MKWTF)

Monday/Tuesday/Wednesday/Thursday/Friday

Time: 11:00 AM - 1:50 PM

Date: 06/29/2022 - 07/27/2022

Description: This course is the continuation of General Physics 1. This course is also developed in a theoretical and experimental way where the active learning methodology is used for science students to acquire knowledge about oscillations and waves, geometrical optics, as well as electromagnetic nature, which are described as follows: oscillations and waves, principles of electricity and magnetism, electric force and potential, Gauss' Law, capacitance and dielectric materials, current and resistance, direct current circuits, magnetic forces and fields, Ampere's and Faraday's Laws, inductance and alternating current circuits, electromagnetic waves, and geometric optics.

Course: FIS 204L 051 GENERAL PHYSICS II - LAB

Credits: 0

Days: (MKWTF)

Lab Fee: N / A

Monday/Tuesday/Wednesday/Thursday/Friday

Meet Type: On-campus

Time: 11:00 AM - 1:50 PM

Professor: VICTOR ORBEGOSO

Date: 06/29/2022 - 07/27/2022

Description: A required laboratory for the FIS 204 course.

Course: FIS 204L 052 GENERAL PHYSICS II - LAB

Credits: 0

Days: (MKWTF)

Lab Fee: N / A

Monday/Tuesday/Wednesday/Thursday/Friday

Meet Type: On-campus

Time: 7:30 AM - 10:20 AM

Professor: JAVIER WU LI

Date: 06/29/2022 - 07/27/2022

Description: A required laboratory for the FIS 204 course.

Course: MAT 134 001 PRECALCULUS II

Credits: 3

Days: (MKWTF)

Lab Fee: N / A

Monday/Tuesday/Wednesday/Thursday/Friday

Meet Type: On-campus

Time: 7:30 AM - 10:20 AM

Professor: HUMBERTO SUAREZ

Date: 06/29/2022 - 07/27/2022

Description: The Pre-Calculus II course is a continuation of Pre-Calculus I. It is a theoretical and practical course in mathematics for the Natural Sciences programs. It includes the study of functions such as systems of equations, sequences and series, trigonometric functions, analytical trigonometry, and complex numbers. The purpose is to lay the analytical and geometric bases for studying differential and integral calculus.

Course: MAT 202 001 Calculus II

Credits: 5

Lab Fee: N / A

Meet Type: Videoconference

Professor: ELBA RIVERA

Days: (MKWTF)

Monday/Tuesday/Wednesday/Thursday/Friday

Time: 7:30 AM - 12:20 PM

Date: 06/29/2022 - 07/27/2022

Description: The course is theoretical and practical and deals with the knowledge and application of integral calculus. By applying integrals, problems of volumes of solids of revolution, areas of surfaces, and arc lengths are solved. The different techniques of integration are learned. Problems with indeterminate forms and improper integrals are solved. Problems using sequences and series are introduced and solved. Vectors are introduced and applied, and functions of several variables are studied through partial derivatives and multiple integrals. Problems are solved using different mathematical models in diverse scientific and social knowledge areas.

Course: MAT 261 001 COMPUTERIZED STATISTICS I

Credits: 3

Lab Fee: N / A

Meet Type: Videoconference

Professor: HUMBERTO SUÁREZ

Days: (MKWTF)

Monday/Tuesday/Wednesday/Thursday/Friday

Time: 2:30 AM - 5:20 PM

Date: 06/29/2022 - 07/27/2022

Description: MAT 261 is an elementary statistics course for students in the School of Natural Sciences. Study frequency distributions and their graphical representations: histograms, pie charts, line graphs, ogives, bar graphs, stem and leaf plots. Study of measures of central tendency (mode, mean and median), measures of dispersion (range, variance, and standard deviation), and measures of position (quartiles, percentiles). Basic concepts of probability and probability distributions: binomial, normal, t-distribution, and chi-square. Estimation methods and hypothesis testing. Introduction to linear regression. Computer activities are integrated using the EXCEL statistical package and the R platform. The purpose of the course is for the student to learn to apply the tools of descriptive and inferential statistics to scientific research.

Course: QUI 102 001 GENERAL CHEMISTRY II

Credits: 4

Lab Fee: \$100

Meet Type: Videoconference

Professor: URIEL RIVERA

Days: (MKWTF)

Monday/Tuesday/Wednesday/Thursday/Friday

Time: 11:00 AM - 1:50 PM

Date: 06/29/2022 - 07/27/2022

Description: The General Chemistry course introduces the laws and fundamental principles of modern Chemistry. Its goal is to develop an understanding of chemical principles so that students can explain at the molecular level the relationship between the structure of a substance, how and why a reaction can occur, and how energy changes occur. In this second part, the physical properties of solutions are discussed.

In addition, the chemical equilibria involved in acid-base reactions, precipitation and oxidation-reduction, and the factors that affect the speed with which the reactions occur are studied. The laws of thermodynamics, electrochemical cells, and their relationship with chemical equilibrium are discussed. The course incorporates laboratory experiences to illustrate theoretical concepts, develop technical skills and analysis, and stimulate the development of scientific investigations. This course is aimed at students of concentration in Chemistry, Biology, Biomedical Sciences, and other allied health sciences who are trained to understand the biological and industrial processes of the world around us.

Course: QUI 102L 051 GENERAL CHEMISTRY II - LAB

Credits: 0

Days: (MKWTF)

Lab Fee: N / A

Monday/Tuesday/Wednesday/Thursday/Friday

Meet Type: Face-to-face

Time: 7:30 AM - 10:20 AM

Professor: RICHARD KINCH

Date: 06/29/2022 - 07/27/2022

Description: A required laboratory for the QUI 102 course.

Course: QUI 102L 052 GENERAL CHEMISTRY II - LAB

Credits: 0

Days: (MKWTF)

Lab Fee: N / A

Monday/Tuesday/Wednesday/Thursday/Friday

Meet Type: On-campus

Time: 2:30 PM - 5:20 PM

Professor: URIEL RIVERA

Date: 06/29/2022 - 07/27/2022

Description: A required laboratory for the QUI 102 course.

Course: QUI 302 001 ORGANIC CHEMISTRY II

Credits: 4

Days: (MKWTF)

Lab Fee: \$100

Monday/Tuesday/Wednesday/Thursday/Friday

Meet Type: On-campus

Time: 2:30 PM - 5:20 PM

Professor: SARA M. DELGADO

Date: 06/29/2022 - 07/27/2022

Description: Study of molecular orbitals and aromatic systems. Aromatic electrophilic substitution mechanisms, nucleophilic carbonyl addition, nucleophilic acyl substitution, and enolate-related condensations are studied. The IUPAC nomenclature of benzene derivatives, aldehydes, ketones, carboxylic acids, and their derivatives and amines is discussed. An introduction to the chemistry of carbohydrates, lipids, amino acids, and nucleic acids is presented at the end. Ultraviolet-visible, infrared, ¹³C nuclear magnetic resonance, and mass spectrometry are discussed. The elucidation of structures of organic compounds is emphasized by integrating all these techniques. This course is aimed at students concentrating in chemistry, biology, biotechnology, and allied health sciences, trained to understand the biological and industrial processes of the world around us. The course requires independent use of the Science Media Lab.

Course: QUI 302L 051 ORGANIC CHEMISTRY II - LAB

Credits: 0

Days: (MKWTF)

Lab Fee: N / A

Monday/Tuesday/Wednesday/Thursday/Friday

Meet Type: On-campus

Time: 11:00 AM - 1:50 PM

Professor: SARA M. DELGADO

Date: 06/29/2022 - 07/27/2022

Description: A required laboratory for the QUI 302 course.

COMMUNICATION COURSES

Course: CES 110 001 STRATEGIC COMMUNICATION

Credits: 3

Lab Fee: N / A

Meet Type: Hybrid Virtual

Professor: MARY A. TORRES

Days: (MWF)

Monday/Wednesday/Friday

Time: 7:30 AM - 10:20 AM

Date: 06/29/2022 - 07/27/2022

Description: This course studies the theories and principles of strategic communication in practical applications. Students will explore how communication has been transformed by digital technology, media fragmentation, changes in audience behavior, and ethical implications. Also, students will examine cases of strategic communication in novel and emerging scenarios in light of the diversity in digital media and social networks. They will analyze the role of the strategic communicator in the design and implementation of integrated and persuasive strategies to achieve organizational goals. Likewise, students will examine the challenges and opportunities of strategic communication in our global society.

Course: CES 390 001 Special Topics: Podcasting

Credits: 3

Lab Fee: N / A

Meet Type: Videoconference

Professor: FRANCISCO CRISTÓFOL

Days: (MKWTF)

Monday/Tuesday/Wednesday/Thursday/Friday

Time: 10:30 AM - 1:20 PM

Date: 06/29/2022 - 07/27/2022

Description: Podcasts have become an accessible means of communication for sharing content and value about a product, service, or experience. This summer, connect with Prof. Francisco Javier Cristófol, from the ESIC Business and Marketing School in Madrid to learn what elements you need to know to create podcasts in which you transmit convincing and relevant stories to your audience.

Course: CMU 101 001 INTRODUCTION TO MASS MEDIA

Credits: 3

Lab Fee: N / A

Meet Type: Face-to-face

Professor: EUGENIO F. GONZÁLEZ

Days: (MKWTF)

Monday/Tuesday/Wednesday/Thursday/Friday

Time: 10:30 AM - 1:20 PM

Date: 06/29/2022 - 07/27/2022

Description: This course presents the act of communication as a social and cultural practice. It offers an overview of the sphere of mass media constituted in contemporary society by traditional institutions such as cinema, radio, and television as well as by the Internet, a network infrastructure where all these media converge, connected through a series of programs, platforms, and technologies. It also offers a critical conceptualization of this sphere as an ecosystem of networks and media users as "network-actors" or agents who constantly interact with each other and with various

technologies in the cultural space. It allows the student to approach the material through critical discussions, practical activities, and application in the cultural context. Assignments allow students to apply their abilities in the creative process of an entrepreneurial project.

Course: PAV 110 001 NARRATIVE INFLUENCES

Credits: 3

Days: (MKWTF)

Lab Fee: N / A

Monday/Tuesday/Wednesday/Thursday/Friday

Meet Type: Face-to-face

Time: 7:30 AM - 10:20 AM

Professor: LUIS F. LÓPEZ

Date: 06/29/2022 - 07/27/2022

Description: This course examines the history of storytelling as a technique and the creation of original worlds to learn about film genres, global cinema, story and script structure analysis, and creative writing for film and television. It is aimed at students who want to learn about storytelling by reviewing the various ways filmmakers have told stories since the beginning of cinema, and the change the digital age and distribution platforms have meant for content distribution.

Course: PER 110 001 REPORTING FROM PUERTO RICO

Credits: 3

Days: (MKWTF)

Lab Fee: N / A

Monday/Tuesday/Wednesday/Thursday/Friday

Meet Type: Videoconference

Time: 1:30 PM - 4:20 PM

Professor: MARISELLIE ORTIZ

Date: 06/29/2022 - 07/27/2022

Description: The theoretical course explains how state and federal institutions work from a journalist's point of view. Students learn about the history of the media and the culture of journalism during the past, present, and a perspective of the future through the study of the media, government agencies, the Capitol of Puerto Rico, municipalities, and courts, among others.

GENERAL EDUCATION COURSES

Course: ESP 122 001 LITERARY GENRES II: SHORT STORY AND NOVEL

Credits: 3 **Days:** (MWF) Monday/Wednesday/Friday
Lab Fee: N / A **Time:** 8:30 - 11:20 AM
Meet Type: Hybrid face-to-face **Date:** 06/29/2022- 07/27/2022
Professor: TBD

Description: In this course, students will learn about the narrative genres of the story and the novel. They will develop critical questioning through the reading of literary works. Furthermore, students will develop their oral and written communication by analyzing texts framed in different world visions.

Course: ESP 227 001 ADVANCED GRAMMAR

Credits: 3 **Days:** ((KT) Tuesday/Thursday
Lab Fee: N / A **Time:** 9:00 AM - 12:50 PM
Meet Type: Hybrid face-to-face **Date:** 06/29/2022- 07/27/2022
Professor: TBD

Description: Practical-theoretical study of structural Spanish Grammar. Study of the language as a system or structure through the phonetic, morphosyntactic, and lexical-semantic levels. Includes text analysis and practical application of the correct use of oral and written language.

Course: GCC 202 001 CHALLENGES OF CONTEMPORARY SOCIETY

Credits: 3 **Days:** (MWF) Monday/Wednesday/Friday
Lab Fee: N / A **Time:** 10:30 AM - 1:20 PM
Meet Type: Hybrid face-to-face **Date:** 06/29/2022- 07/27/2022
Professor: ANA M. MARRERO DIAZ

Description: This course studies the origin and consequences of humanity's main social, economic, political, and environmental challenges in the twentieth and twenty-first centuries. It also emphasizes the search for solutions from a humanistic perspective, anchored in achieving a society of justice and peace.

Course: GCM 102 001 PERCEPTIONS AND NOTIONS OF REALITY

Credits: 3 **Days:** (MWF) Monday/Wednesday/Friday
Lab Fee: \$100 **Time:** 7:30 AM - 10:20 AM
Meet Type: Hybrid face-to-face **Date:** 06/29/2022 - 07/27/2022
Professor: TBD

Description: This course aims to give students a better understanding of how perceptions help construct new particular and collective realities through different forms of representations. This course promotes the interaction with scientific, philosophical,

and creative texts and active interpretation exercises through oral and written communication. This course is linked to the Language Lab.

Course: GCM 102A 051 PERCEPTIONS AND NOTIONS OF REALITY - LAB

Credits: 0 **Days:** (MWF) Monday/Wednesday/Friday
Lab Fee: N / A **Time:** 11:00 AM - 11:50 AM
Meet Type: On-campus **Date:** 06/29/2022 - 07/27/2022
Professor: MARTHA A. DAMACELA
Description: A required laboratory for the GCM 102 course.

Course: GCM 102B 051 PERCEPTIONS AND NOTIONS OF REALITY - LAB

Credits: 0 **Days:** (MWF) Monday/Wednesday/Friday
Lab Fee: N / A **Time:** 11:00 AM - 11:50 AM
Meet Type: On-campus **Date:** 06/29/2022 - 07/27/2022
Professor: KARLA M. AYALA
Description: A required laboratory for the GCM 102 course.

Course: ING 122 LITERARY GENRES II: SHORT STORY AND NOVEL

Credits: 3 **Days:** (MWF) Monday/Wednesday/Friday
Lab Fee: N / A **Time:** 1:30 PM - 4:20 PM
Meet Type: Hybrid face-to-face **Date:** 06/29/2022 - 07/27/2022
Professor: TBD
Description: This course considers and analyses selected international short stories and novels. Students will participate through oral and written discussion of the works, examining them for their aesthetic, socio-cultural, and value-based stances.

Course: ING 223 ADVANCED COMPOSITION

Credits: 3 **Days:** (KT) Tuesday/Thursday
Lab Fee: N / A **Time:** 1:30 PM - 4:20 PM
Meet Type: Hybrid face-to-face **Date:** 06/29/2022 - 07/27/2022
Professor: TBD
Description: This is an intensive composition course in which students will write correctly, clearly and accurately. Students will develop the basic principles of expository and persuasive writing.

Course: TEO 110 001 EXPLORATION OF THE BIBLE, JESUS, AND HIS PROPOSAL FOR LIFE

Credits: 3

Days: ONLINE

Lab Fee:

Time: —

Meet Type: Online (Asynchronous)

Date: 06/29/2022 - 07/27/2022

Professor: JUAN A. ACEVEDO NIEVES

Description: This introductory course to the person of Jesus of Nazareth and the Judeo-Christian Scriptures aims to offer students, in their first year of exploratory studies, a historical approach to Jesus and his proposal for life as the foundation of Christianity. Through a panoramic survey of the biblical-theological movements: the wisdom literature, prophetic, the evangelical spirit, the Pauline epistolary, and the apocalyptic literature, the figure and values proposed by Jesus will be understood and how these can be the basis for any professional ethical-social commitment.