The field of Creative Industries represents an innovative paradigm for our contemporary knowledge-based society, closely associated with recent trends in cultural activities, digital technologies, and sustainable urban development.

The University of Saint Joseph is a leading international university in China’s Special Administrative Region (SAR) of Macau, where the creative and cultural industries are acknowledged as a strategic area for the development of a vibrant and pioneering cluster of businesses and entrepreneurs. Created in 2012, the new Faculty of Creative Industries integrates some of the most successful programs of our university, ranging from the most traditional subsectors of the Creative Industries, such as Design, Architecture, and Communication & Media, to new fields of study that increasingly converge on the creative domain, such as Information Systems and Environment & Urban Development.

Some of our programs, such as Architecture, are unique within the higher education system of Macau, but above all, the integration of each of these areas within the same faculty provides a unique multidisciplinary community in which students have access to exceptional education opportunities and a work environment that allows them to extend their abilities to the utmost. With our community of students and academic staff, sited within the exponentially growing entertainment and business environment of Macau, USJ is rapidly becoming a leading university in the field of Creative Industries in East Asia.
As the first and only architecture program in Macau, the University of Saint Joseph curriculum adheres to international standards while remaining relevant to our specific location in the world. Grounded on a concern for sustainability and energy efficiency, the curriculum addresses four primary themes: high-density housing; heritage management and conservation; experimental material fabrication; the iconography of casino and resort architecture. Of course, none of these themes are treated uncritically. Our task is not to replicate the existing situation, but to speculate on alternatives, to project other futures for Macau, one of the most exciting and unique urban environments in the world today. Beyond instructing students in the history of the discipline and its accumulated techniques, the university provides space and time for reflection and experimentation – a platform from which to postulate alternatives, to develop unprecedented solutions to current problems, and responses to as-yet unknown ones.

Architectural design is based first and foremost on generosity. To design generously means that an architect should always attempt to increase options, open possibilities, acknowledge diversity, and enfranchise the broadest constituency. The architect has a fundamental obligation to society, to the environment, and ultimately to history. Architecture is always made for others, and has a profound role to play in defining existing communities as well as in setting directions for their future. The task of the architect is to understand the multiple demands – legal, economic, cultural, climatic – placed on any project and then synthesize them into a result that is functionally successful, aesthetically pleasing, and environmentally responsible. The University of Saint Joseph architecture program emphasizes ethics as well as expertise, requiring students to constantly evaluate the consequences of their work on the existing built environment and on the natural world. Our graduates will be good designers, but also good citizens, possessing the requisite skill and vision to contribute to the future form of the city in which they live.
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<tr>
<th>YEAR 1</th>
<th>15 Modules</th>
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<td>ARCHITECTURAL STUDIO II ARCHITECTURE WORKSHOP “SCENE CITY” THE EVOLUTION OF URBAN LANDSCAPES ARCHITECTURAL STUDIO I MATHEMATICS FOR ARCHITECTS I HISTORY OF ARCHITECTURE COMPUTER BASED DESIGN MODELING GRAPHIC/INTERACTIVE DESIGN MATHEMATICS FOR ARCHITECTS I</td>
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<td>ARCHITECTURAL STUDIO III ARCHITECTURAL STUDIO IV INTEGRATED URBAN SYSTEMS ANALYSIS OF STRUCTURES MATHEMATICS FOR ARCHITECTS III DESIGN FOR THE LUMINOUS AND SONIC ENVIRONMENT HISTORY OF ARCHITECTURE: CONTEMPORARY ISSUES CONSTRUCTION TECHNOLOGY FUNDAMENTALS ARCHITECTURAL TECHNOLOGY</td>
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<td>SOCIAL &amp; ENVIRONMENTAL IMPACT ASSESSMENT ARCHITECTURAL STUDIO V PLANNING FOR URBAN CONSERVATION AND SUSTAINABILITY ARCHITECTURAL STUDIO VI DIGITAL PHOTOGRAPHY &amp; VIDEO IN ARCHITECTURE THEORY OF ARCHITECTURE &amp; DESIGN VIRTUAL ENVIRONMENTS INTERIOR DESIGN RESEARCH METHODS IN ARCHITECTURE AND HERITAGE ADVANCED CONSTRUCTION TECHNOLOGY MATERIALS AND METHODS OF BUILDING CONSTRUCTION</td>
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<td>ARCHITECTURAL STUDIO VIII ARCHITECTURAL STUDIO VII INTERNSHIP ISSUES, CONCEPTS AND PRINCIPLES OF HERITAGE CONSERVATION THE BUILDINGS OF MACAU INTEGRATED BUILDING SYSTEMS DESIGN OF BUILDING STRUCTURES DESIGN FOR THE THERMAL &amp; ATMOSPHERIC ENVIRONMENT ERGONOMICS IN ARCHITECTURE BUILDING STRUCTURES AND DESIGN FOR SEISMIC PROTECTION</td>
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<td>GRADUATION PROJECT I GRADUATION PROJECT II PORTFOLIO PROJECT MANAGEMENT IN ARCHITECTURE SUSTAINABLE BUILDING DESIGN ECOARCHITECTURE &amp; AESTHETICS ENTREPRENEURSHIP IN ARCHITECTURE MANAGEMENT IN ARCHITECTURE &amp; PROFESSIONAL PRACTICE</td>
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5 Years Programme | Full-time (day) | 187 Credits International and interdisciplinary environment.
TEACHING STAFF

FULL-TIME

ÁLVARO BARBOSA
/// DEAN OF THE FACULTY OF CREATIVE INDUSTRIES
THOMAS DANIELL
/// HEAD OF THE DEPARTMENT OF ARCHITECTURE AND DESIGN
DAVID GONÇALVES
/// ASSOCIATE PROFESSOR
JOÃO GARROT
/// ASSOCIATE PROFESSOR
FRANCISCO VIZEU PINHEIRO
/// ASSISTANT PROFESSOR
NEENÁ THOTA
/// ASSISTANT PROFESSOR
BERNARD TAN
/// SENIOR LECTURER
DIOGO TEIxEIRA
/// SENIOR LECTURER
FILIPA MARTINS DE ABREU
/// SENIOR LECTURER
GERALD ESTADIEU
/// SENIOR LECTURER
NUNO SOARES
/// SENIOR LECTURER

PART-TIME

ANA CARDOSO
BEN LUK
CRISTINA DIAS
CHRISTIANE LANGE
CHRISTOPHER KALTENBACH
DYLAN BAKER-RICE
DYLAN KWOK
FILIPA SIMÕES
FILIPE CASTRO SOEIRO
GIL ARAUJO
HOLGER KEHNE
JASON DEMBSKI
JOÃO SEABRA
JOSÉ MARIA RICHARDSON
KARIM JABBAR
LOIC FAULON
ROBERTO FRANCIERI
MAN-CHO CHOI
MARCO IMPERADORI
TIAGO QUADROS

GUEST CRITICS

ADALBERTO TENREIRO
AFONSO VILELA
CARLOTTA BRUNI
CATARINA CASTRO HENRIQUES
DANNES KOK
EDUARDO FLORES
FILOMENA VICENTE
GEÓRGIA GOMES DA COSTA
HENDRIK TIEBEN
JOSÉ LUIS SALES MARQUES
JORGE PINTO
KRISTOF CROLLA
KUO JZE YI
LOURENÇO VICENTE
MARIA JOSÉ DE FREITAS
MARIETA DA COSTA
MANUEL CORREIA GUEDES
MANUEL LAM
MIMI CHEUNG
NUNO DA MOTTA VEIGA C. ALVES
ROSE LEUNG
RUI LEÃO
PIRJO HAIKOLA

PUBLIC LECTURE SERIES

AARON TAN
ANTÓNIO CARVALHO
BASTIAN ROEHLINGS
CHRISTIAN J. LANGE
CHRIS LUTH
DAVID ERDMAN
GARY CHANG
JOHANNES WIDODO
JONATHAN D. SOLOMON
MARTIN RIESE
MARTINE DE MAESENEER
MIODRAG MITRASINOVIC
NAOKI TERADA
NIGEL ANTHONY READING
TOHRU HORIGUCHI
TOM VEREBES
RICHARD ENGELHARDT
RODOLPHE EL-KHOURY
RUI FURTADO
The core of the architectural program is the design studio, in which students are guided in the production of innovative proposals for the improvement of the Macau context. Combining hand drawing and modelmaking with advanced digital design and fabrication techniques, students learn to analyse a site and interpret architectural precedents as a basis for developing their own proposals. There is one studio per semester, providing a sequence of projects of increasing complexity across the duration of the program.
High-density housing is a pressing issue for architects in Macau – the most densely populated place in the world, with over half a million people living on less than 30km². Much of the population lives in compact apartment buildings, their living spaces supplemented by the attachment of “cages” to the exterior facades. In recent decades, luxurious new apartment complexes have proliferated, containing within them all the functions of recreation, socializing, and even shopping for their residents. In the housing design studios, students are asked to develop innovative alternatives to conventional housing models in Macau. By focusing on the creation of new organizational, compositional, and functional strategies, the projects straddle issues relevant to both architecture and urban design.
Across its history Macau has dramatically increased in surface area due to natural siltation and artificial land reclamations. Each historical reclamation has a distinct street grid and building morphology, reflecting changing ideas about city design over the decades. Each new reclamation therefore provides an opportunity for a fresh reimagining of what Macau – or indeed any city – might be. The urban design studios encourage students to challenge the exiting masterplans and imagine new ones, while thinking about the necessary and possible relationships between buildings and cities.
Students are instructed in the technical knowledge necessary for the creation of stable, functional, sustainable buildings. This includes structural methods, surface claddings, interior linings, and mechanical systems. The teaching methods range from construction site visits to training in the relevant software applications.
DESIGN-BUILD STUDIO
PULSE PAVILION (2013)

Designed and built by students (Luis Antunes, Miguel Augusto, Anna Baturkina, Chan Wai Hou, Chris Chang, Kelvin Cheang, James Cheung, Benny Chu, Rolan Franco, Gabriel Marques, Ronald Lam, Nestor San Valentin, Rico Tam, Francisco Tam Silveirinha, Sophia Yuen) led by guest professors Kristof Crolla and Dannes Kok, the Pulse Pavilion was a temporary structure located at Plaza Sai Van. An inhabitable sculpture, it was an organic lattice structure created from split bamboo rods, interwoven with fabric panels, and featuring an interactive LED lighting system. By applying advanced parametric software techniques to vernacular construction methods and materials, the pavilion was intended as a reinterpretation of the local building culture and simultaneously a response to the iconic architectural forms and dynamic lighting effects that define Macau’s contemporary visual identity.
Designed and built by students (Ka Fai Chao, Kokou Etoa Mawuia Defly, Jasmine Ao, Yana Stepanenko, Ian Kan Tam, Choi Peng Ma, Chon Kit Im, Ka U Ma, Claire Alexis May Jurado, Ka Wai Ng, Wai Kuan Lei, Man Tak Choi, David Spilka, U Leng Kam, Sophia Yuen) led by guest professors Jason Dembski and João Palla Martins, the Bloom Pavilion was a temporary structure located on a pier at the edge of Sai Van Lake. Constructed from split bamboo rods and volumetric fabric panels, the pavilion comprises three woven basket “trunks” that merge into an overhead canopy. The tallest of the trunks emerged from the lake, while other two sat on the pier. A computer-controlled LED lighting system wrapped the trunks, synchronized with a sound installation from hidden speakers. Cumulatively, these elements create an ambiguous spatial experience that merged land, water, and sky.
Co-organized by CURB Center for Architecture and Urbanism and the University of Coimbra, the Waterlink workshop brought together architecture students from Portugal and from the University of Saint Joseph in Macau for a five-day workshop to explore the city/water interface in the NAPE area of Macau. The task was the design of a Light Rail Transit station at NAPE, integrated with a public space in close proximity to the waterfront. This was undertaken as a workshop studio comprising lectures, tutorials, design proposals, and discussions, culminating in a public presentation at the Waterlink Roundtable.
A collaboration between Architecture Sans Frontières Macau and the University of Saint Joseph, the School Reconstruction Design Bootcamp was an intensive workshop focused on reconstruction efforts in Southeast Asia following Typhoon Haiyan. Students, architects, and others from the Macau community worked together to create proposals for the design of a two-classroom school building in Punta Cogon barangay, which is located within Roxas City on the Western Visayas islands in the Philippines. Funding efforts were successful, and the building will be constructed.

The USJ Architecture program was invited to participate in Tokyo Designers Week 2013, a prestigious gathering of designers and students from all across Asia. A group of six USJ students visited Japan to build a large installation comprising cardboard cubes, bamboo sculptures, Portuguese tiles, mirrors, and LED lights. It was a demonstration of many of the issues that architects in Macau must deal with: high-density housing, modular construction, iconic forms, and spectacular light shows.
USJ architecture students have access to a wide range of material and equipment. In addition to the main design studio spaces, there is a workshop with a range of tools for building models and full-scale mockups. The university library holds a good selection of architecture and design books. New iMac computers are provided in the computer lab, each of which is installed with the essential software applications for 2D and 3D design, including Adobe Creative Suite, AutoCAD, and Rhino. The fabrication studio contains state-of-the-art equipment for model making and rapid prototyping, including an Epilog Fusion 32 laser cutter, a Roland GX-24 vinyl cutter, and a ProJet 160 3D printer. The IT support team is available to provide tutorials and technical support.
USJ will soon move into a new campus, which is currently under construction in the Ilha Verde district. Designed by renowned Japanese architect Koji Yagi and executed by local office MPS, the campus will be a showpiece of sustainable architecture. Based on sustainable building principles intended to minimize wastage and energy consumption, the campus technology comprises a mixture of passive systems (rainwater harvesting and recycling, ledger green strips and fins, roof gardens, low-transmission glazing) and active systems (solar panels, energy recovery in ventilation and chiller ducts, low-consumption LED lighting). It will be an inspiring location for the education of the next generation of Macau architects.
As the first and only architecture program in Macau, the University of Saint Joseph Bachelor of Architecture degree enables students to develop the creative abilities and technical skills necessary to become an effective and respected professional in Macau and the wider world. Addressing the full spectrum of relevant technological, urban, economic, environmental, social, theoretical, and historical issues, the curriculum emphasizes ethics as well as expertise, requiring students to constantly evaluate the consequences of their work on the built environment and the natural world. Topics range from contemporary digital design techniques to architectural heritage preservation, and the entire course is founded on an appreciation of the importance of sustainability and resource conservation. The course is taught by a mixture of local faculty members and visiting professors. All are internationally recognized professionals, thereby providing the opportunity to develop architectural skills in a global context.