

## UNIVERSIDAD DE MONTERREY

En la Universidad de Monterrey se busca que la sostenibilidad sea un eje transversal en todos sus programas académicos; por lo que el alumno no llevará un curso de sostenibilidad, sino que a través de diferentes estrategias pedagógicas, como el Aprendizaje-Servicio, integrará lo aprendido a diferentes situaciones y problemáticas, que pueden ser: ambientales, sociales y económicas; además podrá proponer e implementar soluciones a las mismas.

Se tiene un **total** de **1276** cursos académicos.

Cursos enfocados a la sostenibilidad: **43** cursos.

### Cursos Enfocados a la Sostenibilidad

Clave	Nombre del curso	Descripción del curso
DA2066	Architecture Sustainable Theory	Know and understand the principles and basic concepts of sustainability in architecture. Analyze critically the work of leading architects in sustainable development, their positions and paradigms. Examine the design in response to the climate including active and passive systems.
DA2080	Site Analysis	Understand the methodology and techniques for analysis of various scales sites in order to determine their degree of environmental sensitivity, type of use and potential for development, in order to obtain conclusions to determine congruent lines of work in the subsequent design process.
DA2085	Fundamentals of Urbanism	Know and understand the historical, social, cultural and economic phenomenon that affects urban form and the cities, communities and urban districts sustainability. Examine the role of the government, developers, communities, architects and planners through a theoretical analysis and case studies.

DA2091	Urban Design	Promote a spaces design concepts inspection urbanistics of various scales based on: the composition of spaces urbanistics through an exploration of the language of form, patterns and structural elements as spatial districts, nodes, edges, trails and milestones; socio-cultural; aspects dynamic city functionality and apply the results as a fundamental part in design; methodology and the new tendencies in the field of town planning and sustainable development.
DA2910	Estudio Intermedio III	Provide the application of theories, concepts and definitions related to sustainability, developing projects and products with innovation strategies with less environmental impact, taking care of the financial aspect replying to a better quality of life and the needs of the community.
DA2955	Sustainable Design Theory	Provide an overview of theories, concepts and definitions related to sustainability; tools to analyze and study the social, economic and environmental impact of a sustainable project within a particular context. Applying international standards and development processes of products, processes and services.
DA3034	Project Management Architectural Design	Understand the process, training and business administration from design, taking the development of a project from its source until the completion of the process of preconstruction, covering the search for potential customers, sustainable; constructive feasibility as well as the preparation process to embrace in the architectural design market.
DA3055	The Urban Landscape	Explore the interrelationship between the man and the City developed the ability to intervene in the urban landscape understanding each element of the city and their ability to create functional, aesthetic and sustainable environments.

DA3075	Techniques, Systems and Materials	Know some of the most relevant sustainable edifications ways available in our context, forming in the designer the criteria to pick the best suited techniques, systems and materials to the specific project conditions from concept to use, and that contribute to reduce the environmental impact that buildings have on their environment.
DA3080	Tools for the Analysis of Projects	Apply methodologies and analytical techniques of the various factors involved in the design of sustainable buildings in terms of weather, geometric and topographic data, as well as its use in projective decision making. Learn the basics of analysis and simulation digital tools for projected conditions and behavior in relation to the physical environment as a design optimization media.
DA3085	Norms and Procedures of Certification	Learn some of the most important ways of qualification and certification of sustainable features in buildings, their relevance and deliverable requirements. Additionally, introduce the future architect to the new roles that are assumed in project teams with sustainability intentions.
DE2425	Law Urban	Analyze the legal framework related to the territorial and urban order in the Mexican legal system and its impact on the environment and other aspects.
DE3425	Environmental Law	Analyze the legal framework for environmental law and its impact on the company.

CC2055	Community Medicine	To accomplish competences related with public health to implement and develop trascendental changes in the habits and routines of the population, in their physical, psychological and social environments, as in the way to offer and receive the medical services in an integral way, respecting the culture and considering the available resources to solve the principal health hazards that affect the community.
EM1105	Community Nursing	Discuss the importance of community nursing and the processes of nursing care assistance to encourage and promote the welfare of people while respecting their cultural context, and the Model of Welfare and Health Promotion. Develop skills of working in community nursing, health promotion and disease prevention.
EM1110	Community Nursing Practicum	Clinical practice throughout clinical care, health centers and home visits to do a community study. The students provide information on several health programs and disease prevention throughout home visits.
EM2011	Bioethics in Nursing	Analyze the ethical principles necessary to make moral judgments in the conduct of nursing practice to solve ethical dilemmas related to the life and health and to review the Code of Ethics of Nursing.
EM3105	Values	Apply the construction, autonomy, fair about moral mind.
EM3325	Health and Everyday Chemicals	Assess the effects on health by chemicals contained in daily substances.

NU2205	Food Legislation	Analyze the Mexican legislation in comparison to international rules related to production, reception, handling and food safety; the infrastructure requirements, establishment's equipment; or support the administrative decision making and personal service as well as prevention.
NU2300	Nutritional Orientation and Communication	Develop abilities to elaborate didactic material and the use of exhibition tactics of nutrition related topics directed to the formal education, training and continuous formation to diverse group ages, professions, communities or institutions.
NU3210	Food Services Quality and Certification	Apply the quality systems process and control that ensures the applications of parameters and measurements in the production of served food, ensuring the identification, localization, evaluation and control of the possible risks of food contamination, as well as the elaboration, supervision and analysis of menus, ensuring the nutritional balance and variability.
NU3220	Intervention in Food Services	Analyze the importance of the collective feeding services from the public health and community nutrition point of view; also discover the specifications and functions that a food cafeteria needs to archive.
NU3300	Public Health in Nutrition	Identify and evaluate nutritional problems of population groups; design, organize, implement and evaluate nutritional programs, through public and private institutions as well the civil society. Understand the elements involved in the design of food politics, programs and health promotion campaigns or plans nutrition education policies. Know the application of monitoring application programs of health status in a collective level and strategies of nutritional quality control and food security.

PS2120	Community Psychology Intervention	To organize interventions concerning psychological and social problems in communitarian spaces, through strategies of evaluation and intervention in situations of delinquency, addictions, sexual disorders, and human rights among others, searching the promotion of the resources' development in the individuals of the community.
CI3130	Communication and Social Responsibility	Analyze the social context in which communication is produced and the ethical repercussions implied by this relationship
ED2045	Diversity Pedagogy	Designing, Implementing and evaluating educational projects for various institutions in relation to the harmonious development of students and parents, considering cultural, ethnic, social, and religious differences in an international and global context.
ED3131	Programs for students with special needs	Design the best programmatic instruments that support and respond in an integral way the special needs of children.
ED3141	Lifelong Learning and Community Development	Knowing the foundation and scope of lifelong learning and learning community development, valuing the importance of community work.
HU1005	Social Ideas of Church	Students analyze where the Catholic Church stands concerning social justice while comparing its position with current political and economic systems. An ethical evaluation of how personal and social decisions, actions, and socio-political proposals affect our human environment follows the analysis.
HU2030	Ethics	To guide students in understanding and appreciating human actions, in order to help them to make their own decisions and thus to contribute to an adequate personal and social order.

HU1000	Mexican Studies	To stimulate and foster the student's interest in Mexico through knowledge and analysis of its contemporary social, cultural, economic, and political reality in order to promote the possibility of the student positively influencing the country.
AD2055	Social Entrepreneurship	Understanding the nature and importance of social entrepreneurship, developing in the students the skills to suggest creative solutions for social problems in Mexico and the world. Identifying business opportunities through innovating services and products that generate high social value
AD2480	Social Marketing	Introducing the student in this new marketing philosophy in order to design programs, conceptualize products and services with social impact in order to generate consumer satisfaction and social wellbeing.
IN1005	Sustainable Development	Identify the essential elements that form the environmental values, and develop of environment awareness from the adequate use of energy resources, to promote sustainable development in our society.
IN1211	Modern Energy Systems	To Discover the importance that has the energy in our daily life to make use reasonable of her and motivate the development of alternate energies.
IC3370	Environmental Engineering Laboratory	Experimental measurements of different water quality parameters such as suspended and dissolved solids, pH, biochemical oxygen demand (BOD), chemical oxygen demand (COD), dissolved oxygen, turbidity, chlorine, etc.. Also able to interpret the experimental measurements and evaluate efficiency of a water treatment process

IC3300	Environmental Engineering	Know the rules, consumption, quality and economic value of water for domestic use. Also at the engineering design basic unit operations for the purification and treatment of domestic sewage and sludge processing.
EC2013	Tourism Economics	Equipping students with the tools required to perform studies related to the tourism sector, including the actions required to ensure sustainability of tourism projects.
EC2210	Economy Geography	In the context of special economic students will understand the process and evolution of economic localization models. Students understand also the global economy and the differences between development countries and less development countries, the challengers of globalization.
EC3011	Economic Development in Tourism	Analyzing the alternatives nations have to implement tourism development projects that meet the premise of maintaining ecological balance and preserving the environment.
EC3085	Economic Development	Analyzing the major economic development theories, studying the main obstacles for development, such as poverty, distribution of income, population growth, migration, poor education, and the effects of the foreign sector.