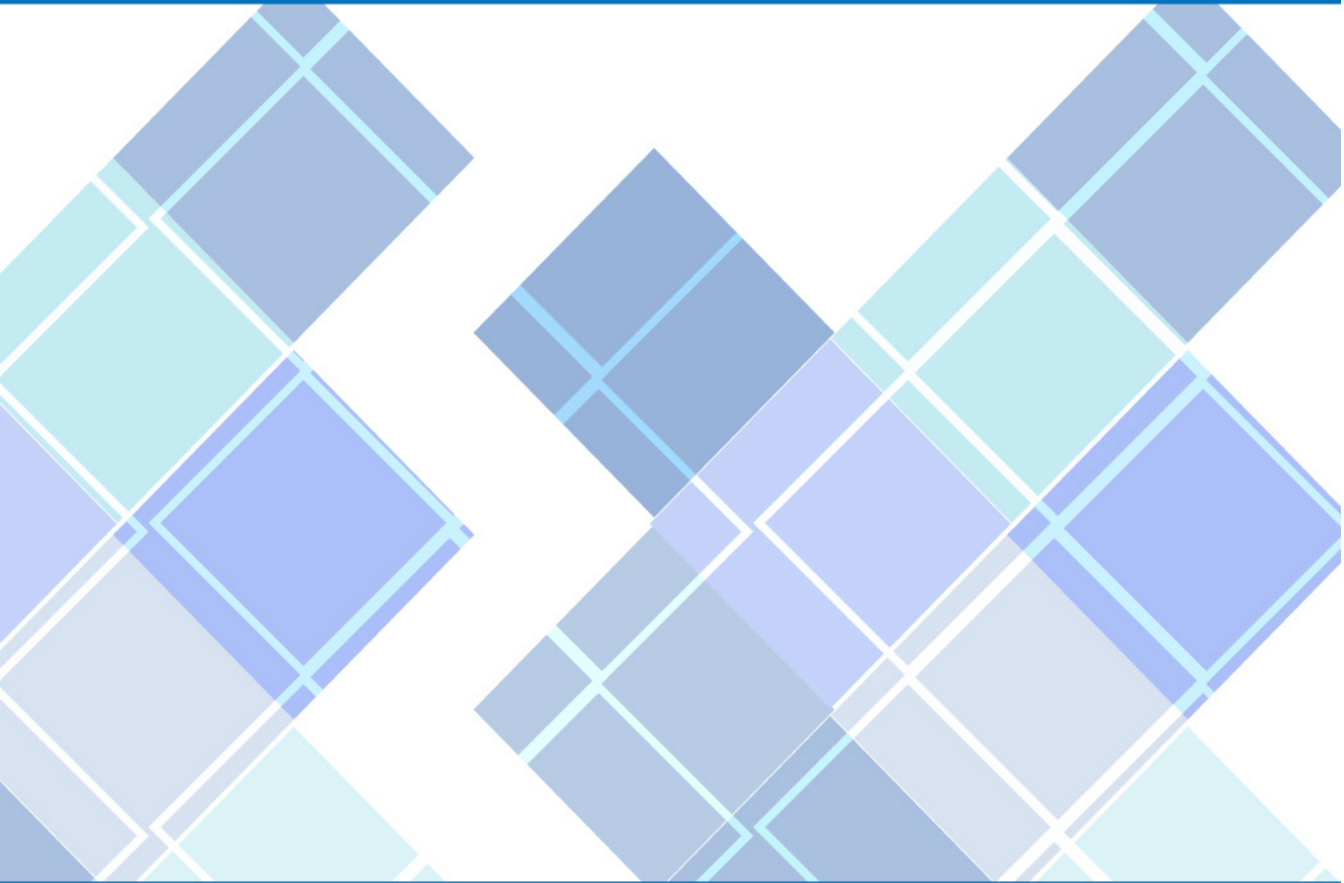




Casa abierta al tiempo
UNIVERSIDAD AUTÓNOMA
METROPOLITANA
Unidad Xochimilco

Professional Profiles UAM-Xochimilco



COPLADA

Coordinación de Planeación, Vinculación
y Desarrollo Académico



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Presentation

The Universidad Autonoma Metropolitana is one of the most important and prestigious higher education institutions in Mexico and Latin America. Its Xochimilco Campus stands out among its five academic campuses for its strong social commitment and the clear participation of its members and graduates in the resolution of major national and worldwide issues and subjects.

Since its foundation in 1974, UAM's Xochimilco Campus has contributed to the training of thousands of graduates from its 18 bachelor degrees and its 30 postgraduate programs (masters, doctorates and specialization degrees).

Teaching activities, as well as research and the preservation of culture, govern our daily university life. UAM-Xochimilco's educational model is unique and has resulted in professionals with a high critical sense, with knowledge and skills that allow them to insert themselves in various labor fields and respond to the current needs of the country and society.

In this publication, we present the profiles of the undergraduate and graduate programs that are taught at the Xochimilco Campus, indicating their individual objectives, curriculum and profile. We refer to them as "Professigraphic Profiles" to emphasize that these are graphic descriptions of professionals who graduate from our study programs. There is also the teaching staff's daily activity regarding training men and women to be sensitive to social problems, responsible towards society and the environment, and with a high sense of professional and human ethics.

In accordance with these new times, the English publication of our Professigraphic Profiles seeks to reach broader audiences, beyond language boundaries. We invite you to read this publication, whether you are interested in forming part of our community, or whether you seek, from different latitudes, to establish links with our University's Xochimilco Campus.

Casa abierta al tiempo

PHD Patricia Alfaro Moctezuma
November, 2017



CSH

**Degrees
from the Social
Sciences and
Humanities
Division**



UNDERGRADUATE PROGRAM IN

SOCIOLOGY

In the Metropolitan Autonomous University, Campus Xochimilco (UAM-X), **sociology** students obtain solid training due to the high qualification of their professors, a broad educational perspective for the students as well as the possibility of incorporation into different professional fields. These are the curriculum characteristics that make the university program in sociology an effective academic alternative.

Sociology is the science that studies collective phenomena, that is, all those forms of subsistence, coexistence, and cohabitation under which the human beings relate to each other and are organized in a society. **The Undergraduate Program in Sociology of the UAM-X** was launched in 1974 when the UAM was inaugurated. Since that year to the present day, more than 1790 professionals have graduated, most of them have become integrated in the professional field.

Upon entering the undergraduate program, the student must fulfil the minimum requirements to develop adequately his training: teamwork ability, discipline, creativity, critical vision, social sensitivity, among others.

GENERAL OBJECTIVE

To train professionals in Sociology with solid knowledge of reality, with an emphasis on the national reality, who are trained to examine social issues and prepared to contribute to problem solving from a perspective that considers the social needs of the country and international context; with the ability to apply creatively theoretical knowledge in the reality analysis; with solid sociohistorical information, and with methodological and technical bases for conducting social research.

CURRICULUM

TRIMESTER	MODULE
INTERDIVISIONAL FIRST-YEAR STUDIES	
1	Module: Knowledge and Society

DIVISIONAL FIRST-YEAR STUDIES

- | | |
|----------|--|
| 2 | Module: History and Society |
| 3 | Module: Mexico, Political Economy, and Society |

PROFESSIONAL STUDIES

- | | |
|-----------|--|
| 4 | Module: Modern society structure |
| 5 | Module: Contemporary society organization |
| 6 | Module: Society and economy |
| 7 | Module: Political power and processes |
| 8 | Module: Work and social organization |
| 9 | Module: Rural development and organization |
| 10 | Module: Education and culture |
| 11 | Module: City and its social actors |
| 12 | Module: Sociology and society |

GRADUATE`S PROFILE

At the end of his studies, the graduate will have the following profile: be able to diffuse and promote the discipline through basic research; to investigate social phenomena using the methods of the social sciences, statistics, and information technology (applied research); to be able to become integrated into planning and decision-making areas in public and private sectors; to participate in secondary and higher education programs by transmitting professional experience to the new generations through teaching and academic management.

UNDERGRADUATE PROGRAM IN **PSYCHOLOGY**

The curriculum comprises 424 credits obtained by taking a total of 2772 class hours of which 1620 hours correspond to theory and 648 hours to practice (both related to the Theoretical and Methodological Seminars). The studies are completed in 12 trimesters, 3 trimesters per year; each academic trimester is 12 weeks in duration; this allows to complete the required credits in four years.

Each module is taught by at least two professors, whose number can increase according to the needs of the program. In the case of the Concentration Areas (from the 10th to the 12th), the professors who are programmed for each group, besides the seminars, are responsible for advising the students' final task from their entry into the Area till the conclusion of their research so that the number of the professors is in line with the enrollment.

Both academic training approach of the UAM-X and Undergraduate Program in Psychology have adopted the so-called **Xochimilco Document** based on the integral conception of teaching, research, and service activities (the latter are called culture preservation and diffusion), within a framework of commitment on the part of the University and its graduates with the aim of addressing the most urgent and significant problems of this country from a perspective of the social development approach, with a clear trend towards helping those social groups which are most disadvantaged for political and socioeconomic reasons.

The Undergraduate **Program in Psychology**, as a discipline placed in the field of Social Sciences and Humanities, is social and multi-referential. Subjectivity processes are studied on the basis of different disciplinary models; among the most important are Psychoanalysis, Genetic Psychology, Constructivism in Social Psychology, Socioanalysis, and Complexity Epistemology.

The Program seeks to train psychologists who meet the demands of the majority of the population that are expressed not only in individual and office areas, but also in various emerging civil organizations and institutions as well as in institutions that traditionally require the profession of Psychologist: public and private schools, kindergartens, social rehabilitation centers, boarding schools, psychiatric hospitals, among others.

GENERAL OBJECTIVE

To train professionals with solid knowledge of existing psychological theories and with a high critical ability to prevent, detect, assess, intervene, and investigate psychosocial problems in such a way that they are able to analyze and propose alternatives to various conflicts in the country, different subjects and their groups, institutions, and communities in accordance with their own environment as well as with the world context.

CURRICULUM

TRIMESTER	MODULE
INTERDIVISIONAL FIRST-YEAR STUDIES	
1	Knowledge and Society
INTERDIVISIONAL FIRST-YEAR STUDIES	
2	History and Society
3	Mexico, Political Economy, and Society
PROFESSIONAL BASIC STUDIES	
4	Subject in the History of Psychology
5	Subject and Culture
6	Development and Socialization I
7	Development and Socialization II
8	Psychic Conflict, Mental Health, and Society
9	Experience and Learning
CONCENTRATION AREA IN EDUCATIONAL PSYCHOLOGY	
10	Society, Education, and Learning I
11	Society, Education, and Learning II
12	Society, Education, and Learning III
CONCENTRATION AREA IN SOCIAL PSYCHOLOGY	
10	Psychosocial Intervention: Group, Institutional, and Community I
11	Psychosocial Intervention: Group, Institutional, and Community II
12	Psychosocial Intervention: Group, Institutional, and Community III

GRADUATE`S PROFILE

At the end of his training, the graduate is able to:

- Work in dialogue with professionals from other disciplinary fields.
- Develop skills that allow him to understand and manage information, and produce results.
- Elaborate methodological strategies for designing primarily qualitative research, while recognizing possibilities, significance, and limitations of quantitative methods.
- Design instruments for constructing and interpreting qualitative material: observation records, interviews (open, in-depth, focal, group), life stories, autobiographical stories, etc.
- Coordinate groups for discussion, reflection, learning, and training.
- Apply, analyze, and interpret the use and importance of psychological tests as auxiliary tools in the framework of constructing research instruments.
- It is noteworthy that the development of the above-mentioned skills and abilities requires solid knowledge of different theories that result in tools, instruments, and techniques which allow the graduate to get closer to the discipline field and, along with this, to be ethically responsible during research and field practice.



UNDERGRADUATE PROGRAM IN

SOCIAL POLICY AND MANAGEMENT

The Undergraduate **Program in Social Policy and Management** was launched in the fall of 1997 as a response of the UAM to the changes in the country that have limited the role of the State and the resources by fostering decentralization strategies which have changed their responsibility at different levels. Likewise, new social actors have emerged who participate in developing social programs in a growing and determined way and are also interested in expanding their influence in the public policy process.

The Program seeks to respond to social problems in the quickly changing landscape of contemporary Mexico through a new approach in the area of policy, the State, and social management.

The curriculum has been approved and accredited by the **Association for Accreditation and Certification in Social Sciences A. C.**, an organization that is recognized by the Council for Accreditation of Higher Education, A.C.

MISSION

To train professionals with solid theoretical and instrumental training in political and social theory, government management, and policy analysis with methodological mastery in the field of social sciences, critical sensitivity to social demands, ability to manage the latter, and capacity to design problem-solving strategies that involve public policies.

VISION

To be a national and international point of reference due to its educational model - the modular system - and in the training of professionals with thorough preparation in the field of analysis, design, and implementation of public policies as well as development of assessment of governmental programs and social projects.

GENERAL OBJECTIVE

To train professionals in the area of Social Policy and Management who:

1. Analyze, in particular, governmental and, in general, public actions aimed at solving social demands from an interdisciplinary theoretical perspective by using mathematical and methodological techniques and instruments.
2. Investigate and diagnose problems related to the government organization and work on the basis of conceptual and technical elements.
3. Formulate and develop action strategies aimed at solving public problems by by considering the interaction between the government and social actors.
4. Apply in an integrated way theoretical and instrumental resources acquired in professional practice that involves analysis and research to assess or design solutions for concrete social problems.
5. Analyze the reality on the basis of theoretical frameworks that allow to think from an analytical perspective and understand the social, political, and administrative dynamics of contemporary Mexico.
6. Determine alternatives for access, processing, analysis, and communication of relevant information based on techniques and mathematical and methodological knowledge that implement theoretical conceptualization of the reality.

CURRICULUM

TRIMESTER	UAE (Teaching-Learning Unit)	Components
INTERDIVISIONAL FIRST-YEAR STUDIES (28 credits)		
1	Knowledge and Society	
INTERDIVISIONAL FIRST-YEAR STUDIES (72 credits)		
2	History and Society	Logic and Writing Workshop
3	Mexico, Political Economy, and Society	Workshop on Mathematics Applied to Social Sciences
PROFESSIONAL BASIC STUDIES (160 credits)		
4	Social Structure	Theory-research
		Statistics and probability
		Methodology

5	State and Society	Theory-research
		Discourse analysis
		Survey
		Inferential statistics
6	Political System	Theory-research
		Constitutional right
		Linear algebra
7	Government and Institutions	Theory-research
		Administrative law
		Diferential calculus
PROFESSIONAL STUDIES (120 credits)		
8	Organization Structure and Processes	Theory-research
		Microeconomics
		Linear programming
9	Public Administration and Management	Theory-research
		Macroeconomics
		Decisions and games
10	Public Policy	Theory-research
		Public sector economy
		Project assessment
PROFESSIONAL SPECIALIZATION (60 credits)		
11	Government Management in Mexico I	Mexican political system
		Social policy
		Research seminar
12	Government Management in Mexico II	Mexican public administratio
		Compared policies
		Research seminar

GRADUATE`S PROFILE

The graduate in Social Policy and Management is a professional with scientific, humanistic, and technical training, with a vocation for service in order to contribute to the solution of national problems. He has solid knowledge in political and social theory, government management, and public analysis as well as methodological mastery in the field of social sciences and a technical capacity based on the knowledge of organizational processes, information technology, law, economics, and mathematics.

JOB MARKET

In relation to the government apparatus, the graduate can perform at the federal, state and municipal levels. He can be employed as an information analyst or hold positions in the areas of formulation, implementation, and assessment of public policies, programs, and projects as well as in social organizations, political parties, trade unions, cooperatives, and civil organizations.



UNDERGRADUATE PROGRAM IN

ADMINISTRATION

MISSION

To train professionals in **Administration** with a solid scientific, humanistic, and technical basis that allows them to plan, organize, and direct creation and development of organizations that produce goods and services with a critical attitude and social commitment while promoting an innovative culture of lifelong learning through various links with the society.

VISION

The graduate in Administration is a professional who contributes to the economic and social development of his community and the country by participating in creation and/or development of organizations focused on meeting the needs of consumers and/or users, by improving the quality of life of the latter, and by performing socially responsible use of available resources.

GENERAL OBJECTIVE

To train professionals with a solid theoretical-practical preparation that allows them to know, adapt, develop, and apply concepts, methods, techniques, and tools in order to plan, organize, and direct the development of organizations that produce goods and services and that are able to achieve effectively and efficiently their economic and social objectives.

SPECIFIC OBJECTIVES

To understand the nature and evolution of administration as a body of knowledge and social activity; to explain their development in different contexts, and to take critical positions in response to different trends of administrative thought and their application to the national reality.

To train an administrator with the ability to:

- Integrate theoretical knowledge and practical and mathematical and computational skills while conducting modular research to identify organization problems in terms of its different elements and to interact with its functional areas with an aim of proposing

technically feasible and socially acceptable solutions.

- Develop an entrepreneurial spirit in order to contribute to a new organization.

ADMISSION PROFILE

This university program aims at training the students who are aware of social determinant causes and problems to be faced and are able to assume a critical attitude that enables them to create democratic culture.

They must understand that a relevant part of the teaching-learning process is collective construction of knowledge with integrated contents and methods aimed at taking charge of and transforming the reality in which they develop; they must also understand that the problems of the majority of the people are theirs and that they participate in them and are directly and indirectly affected by them.

It is a condition that the students actively participate in the process of their own training and in the development of their educational model. For this, it is required that the students have basic knowledge of mathematics, adequate mastery of the Spanish language which allows them to express themselves correctly both orally and in writing, an ability for critical analysis, and a taste for reading. They must be highly participatory in classroom sessions while showing a proactive attitude in the teaching-learning process, and have high disposal and willingness for teamwork, and commitment to the society to which they intend to serve as professionals.

CURRICULUM

The Program comprises 12 trimesters with a total duration of 4 years. The teaching-learning process is full-time. It is offered in the morning and afternoon shifts.

TRIMESTER MODULE

INTERDIVISIONAL FIRST-YEAR STUDIES

1	Knowledge and Society
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DIVISIONAL FIRST-YEAR STUDIES

2	History and Society
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3	Mexico: Economy, politics, and society
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PROFESSIONAL STUDIES

4	Administration: Identity and Evolution
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5	Individual, Group, and Organization
6	Organization and its Environment
7	Organization Management and Control
8	Marketing Strategies
9	Financial Strategies
10	Production and Technology
11	Systems, Decisions, and Information
12	Organization Planning and Development

GRADUATE`S PROFILE

The graduate will be able to foster creation and development of organizations that produce goods and services in private, public, and social sectors as a member, entrepreneur, or consultant by showing teamwork skills and leadership, and as a promoter of development and adaptation of the new technologies.

The acquired theoretical and practical knowledge will allow him to participate in the planning, administration, direction, and control of organizations by applying concepts, methods, techniques, and tools with the aim of achieving their economic and social objectives in a local, national, and globalized environment.



UNDERGRADUATE PROGRAM IN

SOCIAL COMMUNICATION

Historically, the Undergraduate **Program in Social Communication** of the UAM-Xochimilco has had its presence and leadership in the training of social communicators who, through their professional practice, participate in knowledge generation and application by consolidating broad, successful, and effective strategies of social relationships and interaction with public, private, and social agencies and institutions on the basis of strong social commitment to preserving and diffusing the country cultural diversity as well as caring for the environment.

GENERAL OBJECTIVE

To train professionals in communication that are aware of the socio-economic, political, and cultural conditions of **communication** processes in such a way that they transform communication practices in Mexico from a rational, social, systematic, and critical perspective.

CURRICULUM

TRIMESTER	MODULE
INTERDIVISIONAL FIRST-YEAR STUDIES	
1	Knowledge and Society
DIVISIONAL FIRST-YEAR STUDIES	
2	History and Society
3	Mexico, Economy, Policy, and Society
PROFESSIONAL BASIC STUDIES	
4	Social and Cultural Communication Processes - Graphic Communicati
5	Ideology, Power, and Discourse Strategies - Audiovisual Production: Photography
6	Writing and Communication - Journalism
7	Models and Strategies of Broadcasting - Sound Production

8	Cinematography and Cultural Processes - Audiovisual Production I
9	Television and Cultural Processes - Audiovisual Production II
CONCENTRATION AREA	
10	Research for Social Communication I
11	Research for Social Communication II
12	Research for Social Communication III

GRADUATE`S PROFILE

The graduate will have the following skills:

- To develop and carry out research projects related to the field of communication from an interdisciplinary perspective.
- To perform various functions in the media.
- To be able to teach.
- To develop and implement communication strategies in public or private institutions with knowledge of contemporary-society issues.
- To know and use necessary tools with the aim of developing products through media languages.
- To be able to complete and present research results.
- To identify, manage, assess, and use information resources with the aim of storing and diffusing them at different levels.
- To develop strategies in the field of communication.
- To be able to design and produce communication products.



UNDERGRADUATE PROGRAM IN

ECONOMICS

The Undergraduate **Program in Economics** of the UAM-Xochimilco was launched in 1975. From the beginning, the objective of the teaching staff has been to train high-quality economists with a deep sense of social responsibility and capacity for critical contribution.

GENERAL OBJECTIVE

To train a professional with solid theoretical training and thorough knowledge of the national economic reality that allows him to analyze independently the functioning of any national and international economic system, national and international as well as to analyze and propose economic policy measures.

CURRICULUM

The curriculum includes 12 Modules (integrated in three study plans).

The Interdivisional First-year Studies correspond to the first module the objectives of which are to:

- make the student assimilate a clear notion of scientific knowledge;
- develop his critical capacity together with an interdisciplinary view of problems;
- develop the skills of using methodological, technical, and instrumental elements.

The Divisional First-year Studies correspond to two modules the objectives of which are to:

- understand the fundamental characteristics of the social and historical process of Latin America;
- understand the condition of a dependent society inserted in the world capitalism and the alternative that has been set out by socialism;
- acquire basic knowledge in various disciplines of social sciences to have a better and greater chance to decide on his vocational orientation and to study the career that fits to his selection;
- obtain an integrated vision of the economic, social, and political reality of present-day Mexico;
- integrate knowledge of applied mathematics to the social sciences as well as methods,

techniques and skills of research and writing;

- apply theoretical elements and general information to the study of a specific problem of the country.

The Professional studies comprise nine modules in which the student studies fundamental problems that are specific to what constitutes his professional field.

The objectives of the basic professional studies are to:

- provide the student with basic knowledge of the structure and functioning of the economic system in which we live;
- analyze the economic system components and the articulation of the latter as well as the fundamental fields of the Mexican economy.

The curriculum of the basic professional studies is described below.

TRIMESTER MODULE

1	Knowledge and Society
DIVISIONAL FIRST-YEAR STUDIES	
2	History and Society
3	Mexico, Economy, Policy, and Society
PROFESSIONAL BASIC STUDIES	
4	Market and Competition among Capitals
5	Market and Scarce Ressource Allocation
6	Market, Regulation, and Institutions
7	Crisis and State
8	Macroeconomics and Economic Policy
9	Money and Economic Policy
CONCENTRATION AREA	
10	World Economy Dynamics
11	World Economy and Latin America Development
12	Growth and Development

GRADUATE`S PROFILE

The graduate in economics is a professional who is committed to searching for a democratic, fair, and equitable society. He has solid training in different theories of economic science, and mathematical and statistical methods and techniques as well as of the national, regional, and global economic reality. He is able to carry out research on economic problems at micro and macro levels and also evaluate and formulate alternatives for economic policies in line with the social needs.

The graduate has the following knowledge, skills, attitudes, and values:

KNOWLEDGE OF

- University and **modular system**
- Social science concepts: basic and applied
- Methodologies of scientific and humanistic research
- Historical, theoretical, and empirical elements of the modern world structures
- Historical, theoretical, and empirical aspects of economic, political, and social structure of Mexico and its global environment
- Mathematical concepts
- Logical reasoning principles
- Relevant paradigms of classical, neoclassical, Keynesian, and neoinstitutionalist schools
- Market functioning, resource, pricing, and competition
- Causes that lead to unemployment, inflation, inequality, and economic stagnation as well as economic policy proposals that come from different theoretical bodies of knowledge
- Mathematical, statistical, financial, social accounting, and information technology bases applied to economic sciences
- Different stages, strategies, and policies of economic development in Mexico, Latin America, and the world economy
- Methodology for economic research: theoretical and applied

SKILLS

- To conduct research that involves task planning and organizing, decision making, applying creative and critical knowledge, information analyzing and systematizing, pro-

- blem solving, and communicating in an appropriate way
- To work in disciplinary and interdisciplinary teams
- To pose and solve problems in a creative way
- To apply critical and assertive thinking
- To learn to learn
- To reflect on different problems of the society with an emphasis on national issues
- To apply knowledge to develop proposals aimed at solving the society problems
- To be continuously updated in knowledge and technologies
- To handle the new information technologies
- To **understand academic texts in English**
- To adapt critically theoretical and practical paradigms that contribute to identification and resolution of national problems
- To handle mathematical, statistical, financial tools for interpretation, analysis and solution of economic problems
- To handle software packages for economic model analysis and design
- To acquire capacity to reflect in a critical way on different theoretical interpretations that allow to adapt them to identification and solution of national economic problems
- To develop economic policy strategies for solving problems faced by the Mexican society and its public, private, and social organizations
- To investigate, analyze, understand, and explain economic problems of the country and the world
- To be able to evaluate and formulate public policies in line with economic and social needs
- To be able to evaluate investment projects in economical and social terms
- To exercise leadership in a work environment
- To work in disciplinary and interdisciplinary teams

ATTITUDES

- Sensitivity to social, ethical, and aesthetic issues
- Propositional criticism
- Openness to changes of theoretical conceptions and approaches
- Disposal to dialogue
- Openness to different theoretical and empirical interpretations
- Interest in collective work
- Permanent updating

- Solidarity and social commitment
- Self-assurance
- Sense of institutional and social belonging
- Identifying and understanding different systems of ideas and values

VALUES

- Social responsibility for building a democratic, fair and equitable society
- Solidarity and social commitment
- Respect for the human rights and ideological, social, cultural, and environmental diversity
- Honesty and responsibility for performing his social role
- Critical and proactive awareness of socioeconomic problems
- Tolerance to diversity, and racial, economic, ideological, religious or sexual non-discrimination

JOB MARKET

Graduates can carry out their work activities in public, private, and financial (Banking and Stock Market) sectors and, in general, institutions that require specialists to evaluate macroeconomic and microeconomic policies. Universities and research institutes are also options.







CBS

**Degrees in the
Biological
Sciences and
Health Division**



UNDERGRADUATE PROGRAMS IN

BIOLOGY

GENERAL OBJECTIVE

To train creative and critical professionals who are able to carry out scientific activities with the aim of developing and evaluating, from a multidisciplinary perspective, strategies for managing natural biotic resources based on methodologies that are specific to the Biological Sciences.

CURRICULUM

The minimum, normal, and maximum numbers of credits per trimester are: 28 for module I; 42 for II and III; and 47 from IV to XII, respectively.

This Program is offered only in the morning shift, and because of the nature of the modular research work, students are required to dedicate full time to be able to complete the credits in the established period of time.

TRIMESTER	MODULE
GENERAL FIRST-YEAR STUDIES	
1	Knowledge and society
DIVISIONAL FIRST-YEAR STUDIES	
2	Fundamental cellular processes
3	Energy and consumption of fundamental substances
PROFESSIONAL BASIC STUDIES	
4	Biodiversity and natural resources
5	Life stories
6	Natural resource pests and diseases
7	Biogeochemical cycles
8	Primary production
9	Secondary production

10	Community analysis
11	Ecological system analysis
12	Analysis and environmental planning

GRADUATE`S PROFILE

The biologist training in the UAM-Xochimilco comprises composed five interrelated dimensions:

- Theoretical training that allows the graduate to study renewable natural resources primarily through ecology.
- Epistemological training that allows to examine the reality from a scientific and methodological approach built around concrete problem solution.
- Scientific training that includes a wide range of habits, skills, attitudes, methods, and values derived from ecology and biology approaches.
- Technical and methodological professional training that refers to the strategies of approaching a phenomenon or object of study in professional work that are related to renewable natural resources. They includes: inventorying, characterizing, describing, diagnosing, evaluating, estimating utilization rates, forecasting, designing, and proposing management measures.
- Critical and social training with which ethical bases are established so that the student perceives the natural resources as dynamic phenomena which interact with the activities performed by the man in order to meet his needs.



UNDERGRADUATE PROGRAM IN

BIOLOGICAL AND PHARMACEUTICAL CHEMISTRY

MISSION

The mission of the Undergraduate **Program in Biological and Pharmaceutical Chemistry** of the UAM-X is to train professionals with a solid scientific, humanistic, and technical base, a critical attitude and clear social commitment that contribute to the solution of national problems in the field of medicine obtaining and control as well as in medicine and biological product production and control through the **modular educational system**. Likewise, it seeks to train professionals with the behavior that is in line with the needs of the environment; with attitudes towards working together with other professionals and the society. It also fosters, through service, appropriation of knowledge produced by social, public, and productive sectors, thereby recognizing that university knowledge acquires full significance only in its social application. The Program enables the students to update permanently and continue their training through searching for new options of training, knowledge generation, and application,.

VISION

Within ten years the Undergraduate **Program in Biological and Pharmaceutical Chemistry** of the UAM-X sees itself in a vanguard position in education due to using an educational model focused on reflection, enrichment with epistemological, pedagogical, and technological advances. It will train professionals who, in order to offer better service to the society, use research and participate in interdisciplinary groups with the aim of addressing different problems in their professional practice. They are permanently updated and understand the social and cultural context in which they perform, discover, and develop new perspectives, techniques, and knowledge in their professional field and in response to social needs. They also offer specific

solutions in their professional field and are able to integrate scientific quality with human quality into a continuous process that is always based on the social reality.

OBJECTIVES

To train professionals who are able to:

- Deal with knowledge as a social subject and tackle an object of study in an individual way.
- Build knowledge and develop skills that are necessary to acquire a critical vision to participate in interdisciplinary teams that contribute to solving health problems in the country.
- Investigate, evaluate, and solve problems related to obtaining and control of medicine quality.
- Apply acquired knowledge and skills to chemical and pharmacological evaluation of compounds for therapeutic use.
- Investigate, evaluate, and solve problems related to design, production and control of medicine, biological products, and diagnosis reagents.
- Know and apply legislation related to regulation, marketing, and distribution of healthcare consumables.
- Apply acquired knowledge and skills to problems that arise in the professional field from a sustainable development perspective.
- Exercise the pharmaceutical profession with ethical and responsible behavior, with a critical attitude towards problems of economic, political, and social health type in Mexico, and with the capacity for planning, production, evaluation, and assurance of medicine quality and other healthcare consumables as well as for method and process validating in the pharmaceutical industry.
- Gain access and participate successfully in the professional field, postgraduate studies, and research with precise knowledge of the situation and perspectives of the chemical and pharmaceutical industry in Mexico on the basis of a comprehensive approach and solid basic training.

CURRICULUM

TRIMESTER	MODULE
INTERDIVISIONAL FIRST-YEAR STUDIES	
1	Knowledge and Society Statistics I, II or III

DIVISIONAL FIRST-YEAR STUDIES

2	Fundamental Cellular Processes Mathematics II or III
3	Energy and Fundamental Substance Consumption Chemistry II or III

PROFESSIONAL BASIC STUDIES

4	Synthesis and Organic Compound Reactivity
5	Obtaining Organic Compounds of Pharmaceutical Interest
6	Raw Material Evaluation for Drug Production
7	Medicines as Biological Function Modifiers
8	Design and Obtaining of Quality Medicine
9	Evaluation of Medicine Quality

CONCENTRATION AREA

10	Prevention and Control of Microbial Propagation
11	Obtaining of Metabolites of Industrial Interest for Healthcare

12	Choosing among: a: Quality Assurance in the Chemical and Pharmaceutical Industry b: Molecular Technologies for Diagnosis and Therapeutics c: Innovative Medicine Design and Obtaining d: Biopharmaceutical Evaluation e: Applied Instrumental Analysis
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GRADUATE'S PROFILE

The graduate in Biological and Pharmaceutical Chemistry of the UAM-X will be a professional characterized by ethical and responsible behavior in exercising the pharmaceutical profession, by a critical attitude towards economic, political, and social causes of healthcare problems in Mexico, and by the capacity for adopting a sustainable perspective in the planning of medicine production and other healthcare consumables. He will have solid basic training that will allow

him to gain access and successfully interact in the professional field, postgraduate studies, and research.

HE WILL ALSO HAVE THE CAPACITY FOR

- Searching for, managing, and integrating information as well as for using appropriately the formal languages of his field of action.
- Relating the chemical structure of therapeutic agents with their physical and chemical properties and pharmacological behavior.
- Conducting qualitative and quantitative medicine and raw material analyses to ensure medicine quality.
- Using necessary statistical tools in design and evaluation of processes during professional practice in the field of biological and pharmaceutical chemistry.
- Participating in development, physical, chemical, biological, and microbiological control as well as production and evaluation processes of medicine of natural or synthetic origin, biological products, and diagnostic reagents.
- Performing good manufacturing practices in medicine planning, development, and production.
- Developing and validating analytical methods for the pharmaceutical and chemical industry.
- Participating in studies on biopharmaceutical medicine.
- Participating in quality assurance system operation and documentation in the field of biological and pharmaceutical chemistry.
- Participating in healthcare regulation, management, and information processes related to medicine use and side effects in order to contribute to their appropriate use.
- Participating in development and adaptation of biotechnological processes to obtain medicine and biological products.
- Using and disposing of wastes from biological, pharmaceutical, and chemical production processes in accordance with safety standards while minimizing personal and ecological risks.

UNDERGRADUATE PROGRAM IN

NURSING

The **Nursing career** in the UAM-X arose from the commitment to establish, through its curriculum, the elements that are necessary to train graduates who exercise their professional practice as creative individuals with the capacity for working in multidisciplinary teams and with a responsibility to use their knowledge in favor of healthcare demands of the population.

The Program focuses on professional **nursing** care provided to the society. In this sense, the UAM-X trains future professionals who are committed to the healthcare of the Mexican population.

The graduates are placed in the job market in the areas of care, teaching, and research both in public and private sectors.

Since 2015, a new curriculum and updated academic programs have been used in order to meet **new healthcare demands** and characteristics of the population while incorporating the new technologies and emphasizing the Ethics of Care in the teaching process.

The Nursing career participates in the **Permanent Commission of Nursing**, an organization that implements healthcare policies and nursing education at the national level.

More than 80% of the Program teaching staff are certified professors.

In 2007, the program was a pioneer in the re-accreditation process.

GENERAL OBJECTIVE

To train professionals with a critical and scientific attitude towards health problems, with an interdisciplinary and multidisciplinary conception aimed at providing nursing care at an individual and collective levels, with an emphasis on health rather than disease, by considering the historical, social, economic, cultural, and political contexts of the country.

CURRICULUM

TRIMESTER	MODULE
INTERDIVISIONAL FIRST-YEAR STUDIES	
1	Knowledge and Society

DIVISIONAL FIRST-YEAR STUDIES

2	Fundamental Cellular Processes
3	Energy and Fundamental Substance Consumption

PROFESSIONAL BASIC STUDIES

4	Health Care
5	Community Health Care
6	Clinical Care
7	Nursing Care in Sexuality and Reproduction
8	Nursing Care in the Growth and Development of Newborn Babies, Breastfed Babies, and Preschool Children
9	Nursing Care in the Growth and Development of Schoolchildren and Adolescents
10	Nursing Care of Adults with Medical and Surgical Disorders
11	Nursing Care of Elderly People in a Community
12	Nursing Management and Care

GRADUATE`S PROFILE

Graduates will be able to work in different areas: education, research, service, culture preservation, and diffusion, with a concern for social and professional problems in order to ensure quality nursing care, with a critical attitude, and multidisciplinary team approach to improve health, service, and social welfare conditions.

SOCIAL COMPETENCE

- To analyze general health policies in force in order to apply them in a work environment at three levels of care based on the sociohistorical, political, and economic reality and consistent with an individual, family, and community.

EDUCATIONAL COMPETENCE

- To apply the teaching-learning process in knowledge diffusion and preservation to prevent and conserve health at three levels of care: individual, family, and collective.
- To develop health education programs of promotion and prevention of health of an individual, family, and community.

SERVICE COMPETENCE

- To have knowledge that allows to interact with human beings with the aim of developing professional nursing care.
- To be able to detect in a timely manner the patient`s real and potential needs or problems, by providing nursing care while performing a supplementary or complementary rol.
- To take into account the epidemiological profile of the country in the professional practice for a better understanding of the health-disease process.
- To be able to work in an independent and interdisciplinary manner in promotion, prevention, treatment, and rehabilitation activities of the individual who requires them.
- To be able to detect, analyze, and delimit individual problems or health needs based on scientific and technical knowledge.
- To be able to get access to the job market with an attitude of openness towards technological changes.

RESEARCH COMPETENCE

- To have necessary knowledge for research at three levels of health care.
- To carry out research by applying different theories and methodologies of the discipline in order to improve the profesional care quality in different work scenarios.

ADMINISTRATIVE COMPETENCE

- To apply management processes to optimize nursing care
- To participate in developing evaluation tools for nursing staff

COMPETENCE OF CULTURE DIFFUSION AND PRESERVATION

- To present research results on nursing knowledge and practice
- To implement health promotion programs while respecting and considering community traditions and customs

VALUES

- Responsibility
- Honesty
- Empathy
- Tolerance
- Equity

ATTITUDES

- Disposal for interdisciplinary collaboration
- Empathy of know-how and knowledge of service providing
- Interest in professional and scientific practice growth
- Sensibility and respect for social diversity
- Innovation in research areas



UNDERGRADUATE PROGRAM IN **HUMAN NUTRITION**

The elaboration of the framework and curriculum of the **Undergraduate Program in Nutrition** by a group of professors of the Department of Health Care in the UAM-X dates back to 1980. The axis around which the Program was designed was the health-disease process, thus, the adopted approach responded to a conception of nutrition which was understood as a comprehensive biological process historically determined by socioeconomic formation.

Due to the nutritional transition in Mexico in recent decades, it has become necessary to modify the **undergraduate curriculum** in order to train both theoretically and methodologically those professionals who are able to contribute, through their professional practice, to preventing, controlling, and eradicating different nutritional problems in the country. The curriculum approved in 2008 corresponded to the new name of the study program – the Undergraduate Program in Human Nutrition. The new curriculum comprises three sub-levels: i) food-nutrition processes, ii) nutrition and health at different stages of the life, and iii) fields of nutrition application. The aim was to make the graduates become critical and creative in facing nutrition and food problems from a multidisciplinary perspective at an individual and collective level. In 2016, the curriculum and study program were modified to incorporate the aspects related to nutritional counseling, physical activity, and health promotion models as well as prevention of health-related diseases.

Since its inception and to date, the **Undergraduate Program in Human Nutrition** of the UAM-X has been one of the most important programs of its kind among the schools and faculties of Nutrition in the country. The most important achievements of 25 years of its operation are as follows:

- It is one of those programs that register the highest rates of demand for career admission to the UAM-X.
- It has been a member of the Mexican Association of Faculties and Schools of Nutrition for more than 20 years, where it has played an active role in studies on the job market, training in Nutrition, and processes of evaluation and accreditation of career programs carried out by the institutions that prepare professionals in this field.
- It has twice held the presidency of the Mexican Association of Members of Faculties and Schools of Nutrition A. C.
- It has trained professionals with a curriculum that differs from conventional ones and is based on studying relevant social problems.

- It has participated in the organization of various activities such as the National Congress of the Mexican Association of Members of Faculties and Schools of Nutrition, the Mexican Congress of Nutrition, and the International Congress of Nutrition and Food within and outside the country.
- In 2010, it was accredited by the National Council for the Quality of Educational Programs in Nutrition A.C. (CONCAPREN) due to its educational quality.

GENERAL OBJECTIVE

To train creative and critical professionals that are able to carry out scientific activities based on ethical principles in order to face food and nutrition problems and their relationship with health at an individual and collective levels from a multidisciplinary perspective and through approaches and methods used in the field of biological and social sciences.

CURRICULUM

TRIMESTER	MODULE
INTERDIVISIONAL FIRST-YEAR OF STUDIES	
1	Knowledge and Society
DIVISIONAL FIRST-YEAR STUDIES	
2	Core Cellular Processes
3	Energy and Fundamental Substance Consumption
PROFESSIONAL STUDIES	
4	Diet of a healthy individual
5	Assessment of the nutritional status of human groups
6	Nutrition, gender, and reproductive health
7	Nutrition in the early stages of the life
8	Nutrition, growth, and development in the school and adolescent stages
9	Nutrition and health of the adult population
10	Nutrition of the population over sixty years old
OPTIONAL	

11	Food policies and programs on food and nutrition
12	Comprehensive nutrition management
13	Sanitary control and food services

GRADUATE`S PROFILE

The training obtained by the graduates will enable them to participate as professionals in various fields of the job market, especially in:

- a) Institutional areas of public and private health care
- b) Academic areas of teaching and research
- c) Food services
- d) Institutions responsible for social policy design and program implementation

The training obtained through the **Undergraduate Program in Human Nutrition** will provide the graduates with solid scientific bases that enable them to pose problems within their professional area and practice in the field of public health of urban as well as rural communities.

They will have knowledge of the elements of the socio-economic and cultural context that are important to different social sectors and groups to access healthy diet, as well as of the relations that exist between the food-nutrition situation that prevails in the country and the health-illness profiles of the Mexican population.

Additionally, they will obtain a critical view about the models of health care in force and will have sufficient elements to propose and develop alternatives that contribute to both reorientation of public health services and improvement of their quality.

Upon graduation from the University, professionals in human nutrition will have comprehensive, broad and up-to-date training that will provide them with conceptual, methodological and technical tools that are necessary to:

- Tackle problems of the professional field of nutrition from an integral, interdisciplinary, and ethical perspective that incorporates clinical and socio-epidemiological biomedical approaches.
- Develop alternatives for dietary and therapeutical intervention and physical activity with emphasis on the first level of health care that meets in an integral way the characteristics and specific needs of individuals in different stages of the life cycle.
- Plan and develop collective actions for health promotion, nutrition education, and physical activity that contribute to the prevention and/or solution of nutritional problems that affect different social sectors and groups.
- Participate in multiprofessional work of health teams at different levels of care and pro-

mote greater social and institutional recognition of professionals trained in the field of human nutrition.

- Participate in research and teaching projects that deal with socially relevant problems in the field of nutrition from biomedical, clinical and socio-epidemiological perspectives.
- Promote academic education through incorporation into postgraduate programs.

PROFESSIONAL COMPETENCE

- I. To provide nutritional care to healthy, at-risk or sick individuals on the basis of appropriate assessment and diagnosis, through nutritional care intervention, in different contexts and by considering different characteristics of individuals.
 - a) To carry out nutritional assessments based on anthropometric, dietary, clinical, and biochemical indicators and by considering the state of health, physiology, and the lifestyle of individuals.
 - b) To design and implement nutritional care plans for sick, at-risk, or healthy individuals through appropriate diagnosis.
 - c) To carry out the evaluation and monitoring of nutritional intervention based on national and international recommendations.
- II. To tackle the population, in general, and its particular groups, through specific interventions, food programs that foster a healthy lifestyle as well as public policies that contribute to maintaining or improving the population diet and nutrition.
 - a) To use appropriate reference database and standards to describe and analyze the population food, nutritional and health situation.
 - b) To assess the impact of implementing food and nutrition programs through the use of qualitative and quantitative methods, and indicators in line with each program.
 - c) To undertake scientifically-based nutrition interventions and follow up on these interventions to measure the impact on the population nutritional status and health.
- III. To manage food services in public or private institutions, while ensuring quality standards for consumers and taking into account human, material, and financial resources as well as current regulations and consumers' characteristics.
 - a) To be involved in the development of appropriate processes and procedures with the aim of conserving or improving the health of the individuals who request food services.
 - b) To develop training programs for the staff members who work in food services to ensure quality in this area.
 - c) To implement methods and techniques of verifying the quality of production and care processes in each of the food service areas.

UNDEGRADUATE PROGRAM IN

AGRONOMY

The teaching experience with the first generations has founded the main practices that have prevailed in the **Undegraduate Program in Agronomy**: (a) the **modular** program is defined in the first week of each trimester, (b) the theoretical bases of the module are reviewed in class with active students` participation (a break with the model of lecture teaching); (c) students must use alternative sources of information (in the library of the UAM or in specialized institutions, and nowadays on the Internet) to enrich their participation; (d) research work is carried out in teams formed by several students who seek contact with field problems; (e) the teacher`s main role is to accompany the learning process and to guide the students. Under this approach, modular research work has been developed that includes visits to farmers` lands in the delegations located to the south of Mexico City.

It should be noted that since the beginning of the Program in 1976, there has been a constant concern about the students` development of oral and writing communicative skills. This has been given practical expression in classroom presentation of research results, institutionalization of the days of result presentation publicly and collectively in the **Expo AgroUAM**, and other presentation variants conducted in the classroom.

The modification of the curriculum and study programs (approved in 2001 and launched in 2002) comprises three stages. (1) Diagnosis of Sustainability in Agricultural Systems (2) Management of Productive Process in Agricultural Systems, and (3) Management and Quality of Agricultural Products. The details of the curriculum can be found on the program`s website: <http://www.xoc.uam.mx/oferta-educativa/divisiones/cbs/licenciaturas-posgrados/pplic/agronomia/plan/>

The curriculum includes current paradigms: sustainability, technological innovation, company development, and food quality and safety.

GENERAL OBJECTIVE

To train professionals in **agronomic engineering** with scientific and technological capacity with the aim of developing and applying methodology of diagnosis and evaluation of regional agricultural systems in order to generate technical strategies of management of agricultural productive cycle, plant protection, technology transfer, and creation and management of agri-

cultural enterprises that maximize the quality of agricultural production, together with an integral approach and with a perspective of sustainability of biological, physical, and sociocultural resources of agricultural systems.

CURRICULUM

TRIMESTER	MODULE
INTERDIVISIONAL FIRST-YEAR STUDIES	
1	Knowledge and Society
DIVISIONAL FIRST-YEAR STUDIES	
2	Core Cellular Processes
3	Energy and Fundamental Substance Consumption
PROFESSIONAL STUDIES	
Stage I: Diagnosis of Sustainability in Agricultural Systems	
4	Sustainability of Agricultural Systems
5	Biotic Interactions in Agricultural Systems
6	The Productive Physical Environment of Agricultural Systems
Stage II: Process Management in Agricultural Systems	
7	Selection of Technological Strategies and their Relationship with Levels of Production and Environmental Impact
8	Sustainable Management of Productive Potential of Genotypes in Agricultural Systems
9	Strategies for Plant Protection in Agricultural Systems
10	Technological Innovation in Agriculture
Stage III: Management and Quality of Agricultural Products	
11	Management of the Quality and Safety of Agricultural Products.
12	Management of an Agricultural Enterprise

GRADUATE`S PROFILE

There is equivalence between the abilities contemplated in the Graduate`s **Profile in Agronomy** and professional competence. The skills have been grouped into three types: Technical-Professional (TP), Methodological (M), and Socio-Environmental (SE). The second step consisted in abstracting and conceptualizing of “what the Agricultural Engineer should be able to do”. With this purpose, the main concepts or inputs of the proposed statements were: Production System, Agricultural Practices, Productive-Environmental Impact, Sustainability, and Region. Two concepts that underlied this abstraction were those that encompassed two categories of tasks carried out by the Agronomist: Diagnosis, and Technical and Socio-Environmental Intervention. The result of the activity has led to eleven skills that are listed in the Graduate`s Profile in accordance with 3 types of professional competence.

TECHNICAL SKILLS (TP) OF THE GRADUATE`S PROFILE

- To manage and perform sustainable use of physical and biotic resources
- To develop comprehensive agricultural production projects
- To apply different levels of technological management of productive processes in agriculture
- To conduct interventions that meet criteria of technical feasibility, environmental impact, and economic viability

METHODOLOGICAL SKILLS (M) OF THE GARDUATE`S PROFILE

- To apply scientific methods in problem treatment
- To act with interdisciplinary conception of different problems of agronomic practice
- To generate proposals for strengthening rural populations, communities, and institutions with an integral approach
- To diagnose strengths and weaknesses at a community level and of agricultural productive projects

SOCIO-ENVIRONMENTAL SKILLS (SA) OF THE GRADUATE`S PROFILE

- To respect nature, to promote analysis and reflection on the value of nature for humans
- To develop individual characteristics in order to act in a critical and proactive way, by seeking benefit for the rural society and conservation and increase of natural resources
- To interact with communities and ecosystems

UNDERGRADUATE PROGRAM IN

MEDICINE

SOCIAL CONTRIBUTIONS

- **Doctors** who are integrated into the National and International Health System.
- Doctors who have postgraduate studies (Specialization, Master's, and Doctorate).
- Doctors who perform as managers in different health institutions that are involved in implementation and evaluation national and regional policies, plans and programs, for the benefit of individual and collective health.

INSTITUTIONAL ACHIEVEMENTS

- **Accreditation and Re-accreditation** of the Undergraduate Program by the Mexican Council for Accreditation of Medical Education, A.C. (COMAEM).
- It has professors who belong to the National System of Researchers (SNI) and contributes to the training of new researchers.

IMPORTANCE OF THE DISCIPLINE FOR MEXICO

Doctors of first-level care solve the most common health problems by generating contributions through research and knowledge based on evidence and ethical principles aimed at improving the social and productive life of the country.

GENERAL OBJECTIVE

To train professionals to tackle critically health problems, while using scientific methodology for problem study, and to seek interdisciplinarity on a permanent basis that, regardless of geographic area or workplace, can fulfil both individual and collective health actions in an integral manner. The Program puts major emphasis on actions in order to promote health and prevention of illness rather than cure, and contemplates disability prevention as a starting point of rehabilitating action, while taking into account that it should be integrated into the first contact of the health care pyramid and without losing the dynamic and permanent relationship with the second and third contacts.

CURRICULUM

TRIMESTER	MODULE
INTERDIVISIONAL FIRST-YEAR STUDIES	
1	Knowledge and Society
DIVISIONAL FIRST-YEAR STUDIES	
2	Fundamental Cellular Processes
3	Energy and Fundamental Substance Consumption
PROFESSIONAL BASIC STUDIES	
1 or 2	Introduction to Medicine: Morphophysiology I
1 or 2	Introduction to Medicine: Morphophysiology II
2 or 3	Introduction to Medicine: Pharmacology
Stage 1	
4	Man and his environment
5	Man and his internal environment (M)
Stage 2	
6o	Reproduction
7	Growth and Development of a Babies and Pre-school children
8	Growth and Development of Schoolchildren and Adolescents
9	Comprehensive Adult Care I
10	Comprehensive Adult Care II
11	Comprehensive Adult Care III
12	Integral Care of Medical and Surgical Emergencies
13	Integral Clinical Care I (Undegraduate Medical Internship)
14	Integral Clinical Care II (Undegraduate Medical Internship)
15	Integral Clinical Care III (Undegraduate Medical Internship)

GRADUATE`S PROFILE

We consider that a general practitioner is a health-team worker with comprehensive scientific and humanistic training which allows him to understand the health-disease process in a bio-psycho-social dimension and to intervene along with the community and other professionals in the solution of individual and collective problems through a comprehensive action related to health promotion, restitution, and rehabilitation.

We agree with PAHO/WHO that medical graduates should have a humanistic vocation as well as high academic commitment and scientific curiosity, fueled by methodological development in a biological and social manner; they should have an unrestricted concern for the quality of their tasks, and should always in line with modern ethics principles with a more personal and friendlier treatment, with a search for equity and social efficiency by observing the moral values demanded by the society in the accomplishment of their daily work.

The **Graduate in Medicine** is a professional who is able to:

- Provide quality integral care on the first level of medical care with efficiency and effectiveness.
- Preserve or restore the patient's health in an integral way based on the knowledge of biopsychosocial aspects in different age groups.
- Have a good mastery of tackling the most common diseases of our society in an integral way.
- Conduct clinical and epidemiological research in different health areas.
- Perform a medical action with responsibility and commitment according to ethical, bioethical, and humanistic principles.
- Use self-regulated learning of evidence-based medicine and with an appropriate mastery of the new information technologies.
- Work in a team in an interdisciplinary way.
- Apply diagnostic and treatment criteria based on a reflexive medicine.
- Implement actions of education, promotion, and protection of health.
- Know and apply referral and counter-referral criteria at different levels of care.
- Integrate basic sciences with clinic practice.
- Diagnose and treat in a timely manner the most frequent medical emergencies that may arise.
- Develop health programs and intervention projects.
- Maintain a purposeful attitude to commit to the current development plan.

UNDERGRADUATE PROGRAM IN

DENTISTRY

There exist economic, social, cultural conditions and lifestyles that act as root causes in the emergence and distribution of oral diseases in different social groups and in the access the latter have to dental treatment. The approach to health promotion and prevention of oral and systemic diseases and their co-morbidities is an opportunity to improve the patients' care and health. There is a number of primary care actions that can be performed by dentists, such as screening for diabetes, hypertension, premalignant lesions in the mouth, information about the risks of tobacco and alcohol use, and the relationship that these factors have in oral health and general health. Oral health is an essential component of general health and life quality, therefore, comprehensive approaches must be developed in **dentistry** practice and teaching.

GENERAL OBJECTIVES

To prepare different types of personnel who, while working together, are able to promote and maintain oral health as well as treatment and rehabilitation concerning already established diseases.

To plan, manage, implement, and evaluate programs for development of appropriate technology which contributes to preventing and solving dental problems that affect the health of individuals that constitute **our population**, at any moment of their cultural or socioeconomic development.

KEY ELEMENTS

- It promotes research on dental topics oriented to basic, clinical, and epidemiological sciences with collective, multidisciplinary, quality, and impact criteria that are of national and international reference.
- It encourages participation in social programs during professional practice and its relationship with community oral health.
- It supports a local and global vision of the problems faced the country, while maintaining social commitment and sensitivity towards them.
- It fosters the philosophy of disease prevention by establishing programs at all levels of prevention.

CURRICULUM

TRIMESTER	MODULE
INTERDIVISIONAL FIRST-YEAR STUDIES	
1	Knowledge and Society
DIVISIONAL FIRST-YEAR STUDIES	
2	Fundamental Cellular Processes
3	Energy and Fundamental Substance Consumption
PROFESSIONAL BASIC STUDIES	
4	Oral Health Dental Clinic Practice I
5	Anatomy and Physiology in Diagnosis and Clinical Management Dental Clinic Practice II
6	Cranio-Facial Development of the Management and School Stage Clinical Dental Care of Preschool and School Population I
7	Morbidity of the Stomatognathic Apparatus of Preschool and School Children Clinical Care of Preschool and School Population II
8	Determinants of Occlusal Condition of Preschool and School Population Clinical Care of Preschool and School Population III
9	Therapeutic Conservative Care of Adolescents and Adults Conservative Clinical Care of Adolescentss and Adults
10	Therapeutic Rehabilitation of Adolescents and Adults Rehabilitation Clinical Care of Adolescents and Adults
11	Oral Health and Comprehensive Therapy of Adolescents and Adults Comprehensive Clinical Care of Adolescents and Adults
12	Comprehensive and Surgical Care of Adolescents and Adults

GRADUATE`S PROFILE

The graduate in Dentistry is a professional who is defined by his ability to:

- Have solid clinical criteria to diagnose and treat the most frequent and significant oral diseases, to channel in time to the corresponding levels of care those cases that are beyond their competence.
- Handle adequately equipment, instruments, materials, and techniques that are required in the development of the activities to be performed within the dental area.
- Investigate, analyze, and evaluate dental problems that affect the health of individuals and communities.
- Plan, organize, implement, and evaluate dental programs for health promotion, specific protection, and treatment for the most prevalent oral diseases.
- Perform their professional practice under the current regulations, principles of bioethics and deontology.
- Uphold a social commitment and sensitivity to the problems faced by the country.
- Maintain a lifelong learning attitude that allows application of advances in knowledge and technology.



UNDERGRADUATE PROGRAM IN

VETERINARY AND ZOOLOGICAL MEDICINE

GENERAL OBJECTIVES

To train professionals with attitudes, aptitudes, and knowledge oriented to exercise comprehensive competences derived from the occupational fields inherent to health, welfare, and animal production as well as public health and environmental preservation.

To develop in the student generic and transversal competences in order to manage information in a critical and self-critical way, to work in a team while showing respect, appreciation, and sensitivity to the work of others, to adapt to new situations, to apply knowledge and procedures through research in order to solve problems, oral and written information, and to maintain ethical behavior in performing responsibilities towards animals, the profession, and the society.

To develop in the student specific professional competences related to basic biological knowledge and the professional field of the zootechnical veterinary doctor, by applying his modalities and forms to the solution of problems of health, welfare, animal production, public health, and environmental preservation.

CURRICULUM DESCRIPTION

The expected duration of **the Program** is 15 trimesters, with a total of 615 credits (First Level - General First-year studies - 112 credits, and Second Level - Basic Professional Studies - 503 credits).

In the elaboration of the curriculum of this Program, thirteen specific professional competences of the **Zootechnical Veterinarian** were identified:

1. To apply statistical procedures aimed at describing and analyzing problems of animal health, welfare, and production, and veterinary public health, within the context of environmental protection.
2. To describe the external anatomical conformation of animals as well as to characterize

and evaluate the morphology and function of the organs and systems that make up the internal animal environment.

3. To evaluate nutritional and food management of animals, including the use of forage resources.
4. To preserve animal welfare in its various forms, including management and conservation of wildlife.
5. To observe, describe, differentiate, and interpret anatomopathological lesions as a support for diagnosis of diseases that affect animals.
6. To select procedures for clinical analysis and imaging, and interpret their results as complementary tests to diagnosis of diseases that affect animals.
7. To prescribe medicines and formulate immunization protocols to restore and protect animal health and welfare.
8. To use clinical methods in diagnosis and prediction of systematic diseases and intoxications that affect animals, by formulating preventive and therapeutic treatments and considering their epidemiological importance.
9. To select and use surgical techniques and procedures aimed at diagnosis and restoration of animal health and welfare.
10. To use clinical methods in diagnosis and prediction of infectious and parasitic diseases that affect animals, by formulating preventive and therapeutic treatments and considering their epidemiological and public health importance.
11. To apply hygienic and sanitary measures aimed at preserving the quality of products of animal origin.
12. To characterize different animal production systems to optimize the administrative and economic processes of a cattle company.
13. To develop capacities for optimizing genetic improvement and reproductive efficiency of animals.

These competences are included in Learning-Teaching Units (LTU) that make up the second level - Basic Professional Studies - of the Curriculum.

CURRICULUM

FIRST LEVEL: GENERAL STUDIES

First Sub-Level: Interdivisional First-year Studies

Trimester	LTU
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I	Knowledge and Society
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Second Sub-Level: Divisional First-year Studies

Trimester	LTU
II	Fundamental Cellular Processes
III	Energy and Fundamental Substance Consumption

SECOND LEVEL: PROFESSIONAL BASIC STUDIES

Stage I: Interaction Animal-Environment

Trimester	UAE (Learning-Teaching Units)
II or III	Fundamental Biostatistics Procedures
IV	Characterization and Morphofunctional Evaluation of Healthy Animal
V or VI	Nutritional and Food Management of Animals
V or VI	Preservation of Animal Welfare / Management of Wildlife

Stage II: Clinical Medical Training I

Trimester	UAE (Learning-Teaching Units)
VII, VIII or IX	Interpretation of Pathological Pesiions
VII, VIII or IX	Clinical Diagnosis and Imaging
VII, VIII or IX	Prescription of Medicine for Veterinary Use and Immunization Protocols

Stage III: Clinical Medical Training II

Trimester	UAE (Learning-Teaching Units)
X, XI or XII	Clinical Training in Systematic and Toxicological Diseases
X, XI or XII	Surgical Techniques and Therapeutical Treatment
X, XI or XII	Infectious and Parasitic Diseases and their Importance for Public Health

Stage IV: Animal Production and Quality of Products of Animal Origin

Trimester	UAE (Learning-Teaching Units)
XIII, XIV or XV	Origin Quality of Products of Animal
XIII, XIV or XV	Animal Production Systems
XIII, XIV or XV	Management of Reproductive and Genetic Efficiency

GRADUATE`S PROFILE

The training of the student of VETERINARY AND ZOOLOGICAL MEDICINE will meet the demands that are expressed in the following generic areas of professional work, and the competences that are developed in each of them:

HEALTH AND WELLNESS

Mastery of professional and specific competences oriented to diagnosis in order to prevent, solve, control, and eradicate individual and collective problems related to animal health, by demonstrating values and attitudes towards animal life and welfare.

ANIMAL PRODUCTION

Specific areas of specific professional competences oriented to optimize animal production for both food provision and recreation, company, and socio-therapeutic activities.

PUBLIC HEALTH

Mastery of profesional and specific competences in programs aimed at the prevention of zoonoses as well as those inherent in hygiene, protection, and conservation of food in line with human consumption quality.

ENVIRONMENTAL PRESERVATION

Mastery of profesional and specific competences to apply preventive measures and those aimed at improvement of the ecological environment, by promoting conservation of the environment in a responsible and timely way.





CAD

**Degrees
from the Science
and Arts Division
for the Design**



UNDERGRADUATE PROGRAM IN

INDUSTRIAL DESIGN

Our graduates incorporate value, competitiveness, and innovation in companies through design, promote differentiation in goods and service markets well as search for well-being of the man, society, and environment through objects, processes, and services.

GENERAL OBJECTIVE

To train **professionals** in **industrial design** with solid theoretical, methodological, and technological preparation, who are able to provide relevant, valid, and appropriate answers to problems that arise in their professional field, through design or redesign of objects, processes, and services that meet challenges imposed by the current and future Mexican industry, with a critical, innovative, and flexible attitude, within a framework of environmental rationality, social responsibility, respect for plurality, and solidarity, through incorporation in various public institutions and private partnerships, and through creation and consolidation of micro, small, and medium enterprises which foster projects that contribute to national development.

CURRICULUM

TRIMESTER	MODULE
INTERDIVISIONAL FIRST-YEAR STUDIES	
1	Knowledge and Society
DIVISIONAL FIRST-YEAR STUDIES	
2	Interaction Context-Design
3	Fundamental Fields of Design
PROFESSIONAL BASIC STUDIES	
4	Design, Industrial Development, and Society
5	Design, Industrial Production, and Market Rationalization
6	Industrial Design, Science, and Technology
7	Design, Industrialization, and Productivity

8	Industrial Design and Adaptation for Technological Change
9	Industrial Design and Innovation for Technological Change
10	Planning, Industrial Design, and Social Development I
11	Planning, Industrial Design, and Social Development II
12	Planning, Industrial Design, and Social Development III

GRADUATE`S PROFILE

The graduate trained in Social, Ecological, and Ethical Responsibility will be able to:

- Investigate, analyze, and link social needs related to **design objects** from an interdisciplinary theoretical and practical perspective that integrates relevant conceptual and technical elements.
- Develop creative, aesthetic, functional, and socioecological **concepts and strategies of design and redesign** to meet needs of different productive sectors.
- Propose innovative design alternatives that meet development needs of the Mexican industry based on research, use of the new technologies, and inclusion of national aesthetic and socioecological values.
- Participate in industrial design projects developed in national and international networks and based on detection of related socio-economic interests in order to generate strategic plans for design, production, marketing, and consumption of objects, processes, and services.
- Create and contribute to consolidation of micro, small, and medium-sized enterprises linked to industrial design as an independent profession.
- Perform the profession of industrial designer with interdisciplinary work teams within public or private companies, as an advisor or employee, in the diagnosis of design needs or redesign of objects, processes, and services as well as in processes of commercialization, distribution, consumption, and their obsolescence.
- Design or redesign objects, processes, and services for production, distribution, commercialization, and use by applying current and new trends in the professional field.

UNDERGRADUATE PROGRAM IN

TERRITORIAL PLANNING

Social, economic, and environmental problems in cities, small towns, and regions in present-day Mexico require intervention of the professionals trained with a territorial perspective and who are able to provide solutions for both urban and rural development as well as regional development that are technically and economically viable, and socially and environmentally committed. Hence, our graduates find possibilities for professional development in a wide network of institutions that include public, social and private sectors, from which they are able to influence public policies and forms of making a city, and to reorient region development by allowing deployment of new ways of making an impact on a territory.

The Undergraduate Program in **Territorial Planning** has a double accreditation of its Curriculum and Programs of Studies by the COMAEA and the ANP ADEH, which guarantees high-quality interdisciplinary training.

GENERAL OBJECTIVE

To train theoretically and practically professionals in **Territorial Planning** so that they understand problems of cities, small towns, and regions; define from an interdisciplinary perspective the policies of transformation of their physical structure, design plans and programs that materialize them (for example, structural schemes of land uses and reserves, mobility, roads, and transportation, public services, population distribution, etc.), their instrumentation and management in a concrete situation of the Mexican society and with an emphasis on meeting the majority sector needs.

CURRICULUM

TRIMESTER	MODULE
INTERDIVISIONAL FIRST-YEAR STUDIES	
1	Knowledge and Society
DIVISIONAL FIRST-YEAR STUDIES	
2	Context-Design Interaction
3	Fundamental Fields of Design

PROFESSIONAL BASIC STUDIES

4	Urbanization process
5	Regional development
6	Rural settlements
7	Urban structure
8	Urban space for production, exchange, circulation of goods, and services
9	Urban space for social reproduction
10	State policies and urban planning
11	Instrumentation and urban administration
12	Social agents and urban management

GRADUATE`S PROFILE

The graduate is a professional with **interdisciplinary training** to solve problems of cities, towns, and regions, with the capacity to create ideal dialogue and agreement situations for planning. He has knowledge, skills, and competences to have a multidimensional and multisectoral issue vision and a management capacity to promote relevant and socially viable transformative actions in multiple aspects, such as land uses and reserves, roads and transport, infrastructures (drainage, water and energy systems), equipment (schools, markets, hospitals, recreation centers), public services (post and messenger service, telephony, street lighting, solid waste collection, security), among others, in search of a more integral, balanced, territory, balanced, environmentally sustainable territory with solidarity.

He can work as:

- An adviser in processes of formulation and implementation of territorial and urban and regional development plans.
- A consultant of public and private companies related to land planning and use processes.
- A professor and researcher in research centers and universities.
- A public sector official related to urban or sectorial development policies at a municipal, state, and federal levels.
- A director or coordinator of management plans or specific urban projects with an emphasis on management and development.

UNDERGRADUATE PROGRAM IN

GRAPHIC COMMUNICATION DESIGN

The Program makes an emphasis on the **graphic communication** needs of the society, seeks to be linked with special attention to educational and cultural processes of the great majority of the society, seeks to respond in an alternative way to the dominant models of graphic design related to mere consumption of material goods, in accordance with material needs and social advancement, by conceiving graphic design as a way of appropriating meaning and identity beyond its aesthetic value, by creating new varieties of social relations.

GENERAL OBJECTIVES

To train professionals in graphic message design that are able to:

- Understand and apply theoretical, technical, and formal elements of the design process which allow them to perform work and constantly renew it by placing the specificity of graphic design in the social reality.
- Produce and organize messages of graphic communication of any complexity, by applying theoretical, technical, and expressive skills and knowledge of the design process for production and organization of graphic communication messages.
- Understand and fulfil messages of graphic communication that articulate theoretical and practical elements of the design process which serve to solve concrete problems of the reality, from a critical perspective and social commitment to their professional work.

The duration of the Program is 12 trimesters which normally comprise 4 years, the first three trimesters are part of the first-year studies, the first trimester corresponds to the studies carried out by all the students of various programs taught at the UAM-X, and the following two trimesters correspond to the area of knowledge, in this case within the **Division of Sciences and Arts for Design**.

CURRICULUM

TRIMESTER	MODULE
INTERDIVISIONAL FIRST-YEAR STUDIES	
1	Knowledge and Society
DIVISIONAL FIRST-YEAR STUDIES	
2	Context-Design Interaction
3	Fundamental Fields of Design
PROFESSIONAL BASIC STUDIES	
4	Communication, environment, and society
5	Man and graphic communication
6	Visual language and technical means
7	Languages of graphic communication I
8	Languages of graphic communication II
9	Languages of graphic communication II
10	Development of graphic communication I
11	Development of graphic communication II
12	Development of graphic communication III

GRADUATE`S PROFILE

The professional profile of the graduate in **Graphic Design** of the UAM-X can be defined as that of an integral designer, capable of producing and organizing graphic communication messages by articulating theoretical and practical elements of the design process of design which serve for the solution of concrete problems of the reality, from a critical perspective and social commitment with the professional work.

The graduate in **Design of Graphic Communication** is able to perform creatively in different educational and cultural activities, in publishing industry, press, illustration as well as design, communication, and **audiovisual production** companies, and in official and private organizations that diffuse graphic messages. The graduate is also able to coordinate productive processes, in addition to being able to excel in research and teaching.

UNDERGRADUATE PROGRAM IN

ARCHITECTURE

GENERAL OBJECTIVES

The general objective of the Program is to train professionals in the design of architectural spaces, while taking into account the social context and relevant needs that determine it.

To train professionals with a critical sense of the reality and with a global vision of an architectural problem they have to solve.

To prepare professionals with theoretical, technical, and methodological knowledge as well as with the ability to solve problems of architectural and urban space design in multidisciplinary team work.

CURRICULUM

In each of the modules of the **Undegraduate Program** the student carries out research that constitutes the **modular work** focus. This allows him to develop a great capacity for critical analysis, solution approach, and its practical application.

The curriculum requires developing a final project during the X, XI and XII trimesters when he demonstrates a capacity for research and development of a strategy to be applied to a problem, which will be planned, directed, and solved by the student himself following advice from one or more teachers.

TRIMESTER	MODULE
INTERDIVISIONAL FIRST-YEAR STUDIES	
1	Knowledge and Society
DIVISIONAL FIRST-YEAR STUDIES	
2	Context-Design Interaction
3	Fundamental Fields of Design
PROFESSIONAL BASIC STUDIES	
4	Architecture, Environment, and Society

5	Man and Architectural Space
6	Architectural Space and Development
7	Integral Process of Production of Architectural Spaces
8	Materialization of Architecture I
9	Materialization of Architecture II
10	Development of Architectural Spaces I
11	Development of Architectural Spaces II
12	Development of Architectural Spaces III

GRADUATE`S PROFILE

The Architect who graduates from the UAM-X has the following characteristics:

- He has a great capacity for artistic creation and technological innovation applied to design.
- He has technical training that allows him to participate in multidisciplinary teams for problem solution in the environment where he works.
- He supports the orientation of suitable national development in the area of architecture that considers social implications and their scientific and technological development.
- He plans spatial and territorial planning for each case such as urban renewal, urban conservation, development of local plans and programs, etc.
- He is qualified to direct or integrate research teams whose field of total or partial action is architectural and urbanistic work.
- He supports and develops teaching and knowledge to the community.
- He manages and promotes activities in the field of construction industry.

The graduate will be able to perform his profession in practice both in public and private scenarios as well as a researcher or professor with an active participation that allows him to be aware of social and professional problems while assuming a critical attitude and dynamic conception of the life, and human relations in partnership with multiprofessional work teams.



CSH

**Postgraduate
courses in the
Social Sciences
and Humanities
Division**



DOCTORATE IN

SOCIAL SCIENCES

BACKGROUND

The **Doctorate in Social Sciences** of the UAM-X is one of the main academic assets of the University. It has an experienced teaching staff of the highest level. The distinctive sign of this doctorate is that it reclaims the critical horizon of understanding of social phenomena that shape our epoch together with interdisciplinary vocation. As a whole, the social sciences provide the foundation for elaborating interpretations of varied and complex present-day problems so that it becomes possible to make valid proposals for their solution.

GENERAL OBJECTIVES

- To address the issues of economic, social, political, and cultural development, especially those of Mexico and Latin America, by encouraging interdisciplinary research, reaching the theoretical and methodological definition of the new fields of knowledge in the social sciences, and promoting research projects that are capable of producing new perspectives and solutions.
- To promote the training of researchers and professors with a broad theoretical and cultural perspective, with a high degree of specialization in a field of knowledge, but capable of participating in interdisciplinary approaches, and able to contribute to solution of priority problems of the society, to improvement of higher education institutions and research centers.
- To propose novel alternatives in theoretical and methodological training of interdisciplinary research.

CURRICULUM DESCRIPTION AND DURATION

The **Doctorate in Social Sciences** is of schooling and research type. For this reason, it has a dual structure that is built around high-level theoretical training and orientation towards research. Consequently, the curriculum consists of three blocks or levels of organization of its seminars. The first of these blocks comprises Common First-Year Studies, which correspond

to the first three trimesters (one year). All in all, this block seeks to introduce the students into their own as well as a unitary perspective of the social sciences. The assumption is that there is an epistemological unity and, therefore, fundamental philosophical referents that in their development have historically given rise to various social sciences.

LINES OF RESEARCH

- Communication and Policy
- Society and Education
- Economics and Innovation Management
- Social Psychology of Groups and Institutions
- Power Relations and Political Culture
- International Relations
- Society and Territory

CURRICULUM

I.	Current Problems of the Social Sciences
II.	Scientific and Technological Revolution and its Relation with Changes in the Contemporary Society
III.	Institutions, Social Practices, and Sociability Forms
IV.	Thesis Seminar I
V.	Thesis Seminar II
VI.	Thesis Seminar III
VII.	Thesis Workshop I
VIII.	Thesis Workshop II
IX.	Thesis Workshop III
X, XI and XII.	Thesis and Public Dissertation

JOB MARKET

Given the current conditions of the country marked by the recomposition of basic social institutions, the graduates of the **Doctorate in Social Sciences** have broad possibilities to collaborate in the public sector and at different levels of the government in order to contribute in various

ways to solution of great national problems. Likewise, their profile is oriented to collaboration with organs of political representation of the whole country. Finally, scientific research centers in the social sciences as well as public and private higher education institutions are places of the graduates's recruitment.

ACADEMIC STAFF

We have a staff of high-level research **professors** who are recognized in Mexico and abroad, many of them have been pioneers in the analysis of the issues addressed in the Doctorate in Social Sciences.

ADMISSION PERIOD

Every four years from September to November

ADMISSION REQUIREMENTS

Applicants must submit a Master's degree, take and pass admission exams, prepare a preliminary research project, and pass an interview.

GRADUATE`S PROFILE

After intensive and thorough theoretical training in classical philosophical sources and epistemology, social science logical reasoning and methodology, the graduate of the Doctorate will be able to conduct complicated research that meets the need to understand the social phenomena that articulate our time. He will have the ability to perform thinking operations oriented to formulate critical interpretations of the social orders, and multiple forms and contents of their constitution. He will also be able to understand the social phenomena associated with the global restructuring of the modern society that has resulted in issues such as migrations, violence, new wars, insecurity globalization, new emerging powers and counter powers, social consequences of changes in technology, reconfiguration of power relations among individuals, groups, classes, nations, genders, and so on. Finally, he will possess skills for social analysis while using both qualitative and quantitative research techniques.

INFORMATION

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DOCTORATE IN

HUMANITIES

BACKGROUND / RELEVANT ASPECTS

The **Doctorate in Humanities** of the UAM-X addresses the relations between the ethical, aesthetic, epistemological, and political dimensions of the humanities and the interdisciplinary character that these studies claim in the contemporary horizon. Today thinking about the humanities means to understand the complex and multidimensional field of the phenomena that form them, by assuming the demand to call together plural visions that are able to talk and debate critically.

OBJECTIVES

- To form high-level researchers capable of producing new knowledge in the humanistic field, which contributes to theoretical debate, reflection, and dialogue.
- To develop interdisciplinary methodologies of humanistic research in face of contemporary political, aesthetic, and ethical challenges.

CURRICULUM DESCRIPTION

The model of the **doctorate** is semi-tutorial. The students will have a formative phase during their first year, which will include theoretical and methodological seminars. The second, third, and fourth years correspond to a tutorial phase that will be focused on developing thesis research.

LINES OF RESEARCH

- I. **Colonial studies and postcolonial criticism**
- II. **Cinematographic theory and analysis**

ACADEMIC STAFF

It is a group of research professors who are recognized for their teaching work and high-quality research, who also participate dynamically in the field of higher education and international spaces of generating and discussing disciplinary and interdisciplinary research.

ADMISSION PERIOD

Every four years from March to June

ADMISSION REQUIREMENTS

Applicants must submit a Master's degree in humanistic disciplines, take and pass admission exams, prepare a preliminary research Project, and pass an interview.

INFORMATION

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MASTER'S AND DOCTORATE IN

ECONOMIC SCIENCES

GENERAL OBJECTIVE

To train researchers of high academic level who are capable of generating and contributing new knowledge on their own in the field of theory and/or concrete analysis in economics.

CURRICULUM DESCRIPTION

The guiding principle of this project is teaching promotion and generation, discussion and creation of the economic science from a plural and diverse perspective. Something that can be achieved in this **posgraduate program** (even though it was implemented for administrative reasons for nine years (1987-1996) only in the **UAM-Iztapalapa**) – is due to the fact that from the beginning it has comprised a community that brings together first-level research professors who are capable of offering a wide range of analytical approaches to their students. This is a hallmark of the program with respect to other national as well as international curricula.

The analytical plurality comprises three phases that make up the curriculum of the postgraduate in Economic Sciences:

- the first level or Initial Phase that corresponds to the master's studies;
- the second level or Intermediate Phase that corresponds to the first year of the doctoral studies; and
- the third level or Advanced Phase that corresponds to the period of completing the doctorate.

Candidates can enter the postgraduate from the initial phase and fulfil its requirements, while those candidates who already have a master's degree start their studies from the intermediate stage.

LINES OF RESEARCH

- Economy of sustainable natural resource management
- International economy and economic integration
- Marx's analytical framework and current tasks for contemporary capitalism analysis

- Business, finances, and innovation
- Institutionalization and complexity studies
- Economic history and development
- Dynamic macroeconomics and structural change
- Monetary macroeconomics
- Industrial organization
- Social policies
- Prices, currency, and economic dynamics

CURRICULUM

I.	Microeconomics I and II
II.	Macroeconomics I and II
III.	Industrial organization
IV.	Financial economics
V.	Open Macroeconomics
VI.	General Economic History
VII.	Theories of Economic Surplus
VIII.	Theory of Growth
IX.	Econometrics
X.	Selected Themes I and II
XI.	International economy
XII.	Selected Themes III
XIII.	Theory of Development
XIV.	Seminar of Theory and Economic Analysis

ACADEMIC STAFF

The Master and Doctorate in Economic Sciences is supported by research professors of the highest level: holders of a Master's, Ph.D., and members of the National System of Researchers (SNI).

ADMISSION PERIOD

Annual, for both **Master's and Doctorate**.

ADMISSION REQUIREMENTS

Applicants must submit a Master's or Doctoral degree as the case may be, take and pass admission exams, prepare a preliminary research project, and pass an interview.

MASTER'S DEGREE HOLDERS

Institutions of Higher Education for their research interests and university teaching practice in the discipline.

Public and private organizations where they conduct economic studies that require advanced knowledge of the theory, method, language, and techniques related to the discipline.

PHD DEGREE HOLDERS

Universities and research centers in Latin America and Mexico that require high-level research professors and/or scientific researchers in economics to develop border research in theoretical or applied economics.

MASTER'S APPLICANT'S PROFILE

Applicants for the Initial Phase of the Master's Degree in Economics must possess general solid knowledge of the discipline's theory, method, language, and techniques that show a clear vocation for scientific research and university teaching, and the decision to continue with doctorate training.

MASTER'S GRADUATE'S PROFILE

The graduates of the Master's in Economic Sciences have advanced knowledge of the theory, methodology, language, and techniques of the discipline, of the current state of the border debates in the economic theory and, where appropriate, of specific issues of applied economics according their research interests. Moreover, they will have necessary training for university teaching practice in the field of the discipline.

DOCTORATE APPLICANT'S PROFILE

Graduates of the Master's in Economic Sciences will have advanced knowledge of the theory, method, language, and techniques of the discipline, the current state of border debates in the economic theory, and, where appropriate, of specific topics of applied economics in accordance with their research interests. Moreover, they should take into account that the Doctorate program is focused on training of economists for scientific research and university teaching.

DOCTORATE'S ADMISSION PROFILE

Applicants for admission to the Intermediate and Advanced Phases of the Ph.D. Degree in Economics must have completed the Initial Phase of the Postgraduate Program, with advanced knowledge of the theory, methodology, language, and techniques of the discipline, the current state of border debates in the economic theory and, where appropriate, the specific issues of applied economics, according to their research interests. In addition, they should take into account that the Postgraduate is focused on training of economists for scientific research and university teaching.

DOCTORATE GRADUATE'S PROFILE

The graduates will be high-level scientists in the field of economics who work as university research professors as well as in research centers of Latin America and Mexico, in particular, and who will be able to develop boarder research on issues of theoretical or applied economics, and to give courses, in accordance with their specialization, at both undergraduate and Master's and Ph.D. levels.

INFORMATION

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POSTGRADUATE PROGRAM IN

RURAL DEVELOPMENT

BACKGROUND

The Master`s in Rural Development started its activities in 1984. The strengthening of the academic proposal allowed the Academic College of the UAM to approve the Postgraduate Plan (which includes the levels of specialization, master`s and doctorate) in 2001. By the year 2017, there will be 17 generations graduated with a Master`s degree and 7 generations with a Ph.D. degree.

GENERAL OBJECTIVE

The aim of the Postgraduate in Rural Development is to train researchers, professionals, and professors with a high academic level who can analyze and contribute to the understanding of rural problems as well as cooperate in the search for development alternatives with the social actors` participation.

CURRICULUM DESCRIPTION

The teaching-learning process is based on the **modular system**, which is a pedagogical approach that implies a close relationship between a proposed research problem and social actors involved in a complex social reality; the academic and training program is based on the axis of development or social transformation that start with social subjects.

It is essential for the Postgraduate that the students maintain the link with the actors in the zones and regions where the processes of rural development are carried out, therefore, the study program develops during three intensive weeks of classroom work during one trimester, that is one intensive week per month followed by a period of four weeks, in accordance with the official academic calendar of the UAM, aimed at reading, fieldwork, and other research activities the purpose of which is that the students acquire and construct knowledge based on the day-to-day contrast of analysis categories, concepts with their professional practice, and on research different rural processes.

LINES OF RESEARCH

In the context of the globalization processes and multidimensional crisis that affect the countryside as well as emergence of responses that conceive alternatives between local and global issues, the following lines of research are developed:

- I. Social construction of the territory, production, technology, environment, and sustainable development.
- II. Social reproduction, rural markets, and capital accumulation
- III. Migration, work, education, gender, and health.
- IV. Culture, identity, and human rights.
- V. Political processes, power relations citizenship, and social movements.

DURATION

Specialization (3 trimesters) - 1 year

Master's (3 trimesters) - 1 year; together with the Specialization comprise 2 years.

Doctorate (12 trimesters) - 4 years

CURRICULUM

SPECIALIZATION LEVEL

- | | |
|------|--|
| I. | Rural development and its conceptualization |
| II. | Markets and social reproduction |
| III. | Subordination and rural development alternatives |

MASTER LEVEL

- | | |
|-----|---|
| IV. | Political and cultural dimension of rural development |
| V. | Actors and social organizations in rural áreas |
| VI. | Farmer development and social transformation |

DOCTORATE LEVEL

Research Seminar

from I to XII

ACADEMIC STAFF

The postgraduate has 29 professors, of which 22 are part of the basic staff (21 with a doctorate degree and one with a master`s degree), and the others are associate professors (4 visiting professors, one associate professor of the Division of Social Sciences and Humanities, two professors in a postdoctoral stay). All them work as professors of one of the modules and research seminars, and/or as thesis directors and members of the tutorial committees of master and doctoral students. Moreover, 21 professors are members of the **National System of Researchers**, of different levels. The teaching staff is multidisciplinary, their areas of expertise include: rural development, sociology, social sciences, anthropology, agronomy, political science, economics, history, social medicine, geography, and philosophy.

ADMISSION PERIOD

Biennial for the specialization, master`s, and doctorate.

From January to July in odd-numbered years.

ADMISSION REQUIREMENTS

Applicants must submit a graduate or master`s degree as it may apply, and the requested documents, develop a preliminary research project, take admission tests of a language other than Spanish, and approve in each of the stages proposed for the admission process, which include passing an interview at the end of these phases.

APPLICANT`S PROFILE

The Specialization-Master`s program is aimed at professionals with a graduate`s degree in any discipline, who have experience in rural development processes for at least two years. In addition, applicants are required to be linked to processes and projects with groups, organizations, or rural actors.

In the case of the Doctorate, applicants must have a master`s degree or an equivalent, experience of more than two years in the process of rural development, and also be linked to processes that involve rural groups, organizations or actors, in regions or projects where they propose to conduct their research.

JOB MARKET

Master Graduates in Rural Development have a wide field of work, insofar as they can work in research development that underpins public policies at different national and state government levels in the political spaces of approach and development, in rural and indigenous organizations and institutions, in the planning of local and national development processes, in primary, secondary, and higher educational institutions, in specialized research, among others.

INFORMATION

WEB: <http://dcsh.xoc.uam.mx/index.php/posgrados/posgrado-en-desarrollo-rural>

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COMPREHENSIVE POSTGRADUATE IN **ADMINISTRATIVE SCIENCES**

BACKGROUND

The proposal for the **Comprehensive Postgraduate in Administrative Sciences** (PICA) is the result of the collaboration of three university academic Units: **Azcapotzalco**, **Iztapalapa**, and **Xochimilco**. This project is oriented to creating knowledge in the field of Administrative Sciences and to training researchers, professionals, and professors who address development problems of Mexico.

In particular, the **PICA** is aimed at improving knowledge of the administrative dynamics of companies, public institutions, civil organizations, scientific bodies, and their interactions as well as at proposing solutions to balance economic value creation, social and environmental development of a more sustainable and inclusive economy.

OBJECTIVE

To train researchers, professionals, and professors of high academic level who are able to participate in learning, research, applying, and transmitting knowledge in the area of administrative sciences, with an interdisciplinary approach that meets the society needs.

CURRICULUM

The curriculum comprises two levels. All the students will start with the first level.

- a) The first level is formed by the Teaching-Learning Units of the Basic, Complementary and Research Training stages, the latter corresponds to the Master´s and doctoral students. This level constitutes an integrated academic space that enables the student to build a personal trajectory in accordance with his previous training, the objectives he pursues, and his research interests. The coexistence of master and doctorate students allows, on the one hand, to improve the training of professionals by offering a more solid scientific/

methodological support to search and application of solutions to challenges faced by companies and institutions, and, on the other hand, to enrich the training of researchers who diffuse an up-to-date overview of the country's most important problems.

- b) The second level is conformed by the stages of Additional Training and Research. In order to be able to take this level, students must pass a pre-doctoral exam that assesses whether they have necessary training and knowledge to continue their doctoral research. At this level, doctoral students will be able to take additional training, if they require it, to enhance their knowledge in relevant areas of their research project as well as to develop and conclude their research project with the aim of defending their thesis with a public presentation.

LINES OF RESEARCH

- Human capital, finance, marketing, operations, and information technology
- Strategic direction and socioeconomic management
- Management and public policies in different government spheres
- Economic, social, and sustainable development: globalization and governance
- Sociocultural contexts of companies and institutions
- Philosophical, epistemological, and ethical aspects of administration

ACADEMIC STAFF

The Master's and Doctorate levels in Administrative Sciences has an academic staff of research professors of the highest level: professors with a master's and doctorate's degree, and members of the **National System of Researchers**.

ADMISSION PERIOD

Biennial, from August to November

ADMISSION REQUIREMENTS

Applicants must submit a master's or doctoral degree as the case may be, make and approve admission exams, prepare a preliminary research project and submit an interview.

INFORMATION

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MASTER`S IN **COMMUNICATION AND POLITICS**

BACKGROUND

The curriculum of the **Master`s in Communication and Politics** (MCP) emerged as a response to the growing demand in the last 2 years on the part of the undergraduate students in Communication. The sociocultural conditions and technological progress have created an increasing need to understand and analyze clearly and rigorously the communicative phenomena through the study of languages, politics, and the processes of symbolic production.

OBJECTIVE

To train researchers who are capable of generating knowledge that allows to promote the study of political, communicative, and cultural phenomena in Mexico and Latin America from a critical and transdisciplinary perspective.

CURRICULUM DESCRIPTION

The postgraduate program is aimed at graduates in Communication and other related disciplines, who are interested in the study of communicative processes in a wider scope of political and cultural processes from a transdisciplinary perspective that takes into account the emergence of new theoretical perspectives in communication, philosophy, politics, sociology, technopolitics, anthropology, discourse analysis, semiotics as well as new theories of hypertext and hypermedia narratives.

The curriculum aims at addressing different transformations in our contemporary society:

- In the geopolitical environment: globalization processes, new communication regimes, and unpublished symbolic processes.
- At the technological level: drastic changes in telephony, Internet, digital networks, patterns of visual information.

- At the level of cultural processes: new configurations of public, private, and intimate spaces; new profiles and identities of social subjects.
- At the political level: unprecedented tactics of social control, emergence of new actors in conflict and social violence, politics, social movements, and communicative actions.
- At the level of language: new discursive and argumentative practices, new media as well as strategies of implementation of symbolic universes.

LINES OF RESEARCH

- Emergence and confrontation of political subjects; political relevance of aesthetic experience.
- Study of discursive processes, argumentative practices, and representation regimes.
- Dynamics of cultural fields, new technologies, and media.

STUDY PLAN

- Politics, Language, and Power
- Symbols, Rituals, and Discursive Processes
- Social Semiosis and Audiovisual Languages
- Languages of rupture
- Research Seminar I to III

JOB MARKET

- Management or government institutions, directly involved in public policy creation, implementation, and monitoring.
- All kinds of non-governmental organizations, particularly those that are oriented to the understanding of the symbolic dimensions and verbal and audiovisual facets of languages articulated in institutional structures or individual domains that intervene in the genesis and development of political actions and social actors.
- Research or teaching institutions.
- Mass media.
- Advisory and diagnostic services related to political processes and communication systems.
- Development of communicative strategies for the analysis of political, social, and symbolic factors that affect private initiative performance and activities.

ACADEMIC STAFF

We have a team of high-level professors, all of them are Ph.D. holders, who are recognized in Mexico and abroad, many of them have been pioneers in the analysis of topics related to communication and politics in Mexico.

ADMISSION PERIOD

Biennial, from January to June

ADMISSION REQUIREMENTS

Applicants must hold a graduate degree in a relevant discipline, submit a written application and a letter of motivation, present a preliminary research project, pass an exam and interview within the admission process, present a proof of reading comprehension in English and their Curriculum Vitae together with supporting documents.

ADMISSION APPLICANT'S PROFILE

The applicant must have the following knowledge and skills:

- Good language command and skills in oral and written language;
- Ability to search for information as well as for data analysis.
- General knowledge in the area of humanities and in the functioning of traditional and emerging mass media in contemporary societies.
- General knowledge of the Mexican history, the universal history, and the Mexican political field.
- Basic skills for research: management of the tools that are necessary for research project structuring, data collection, and information analysis.
- Study habits and individual and teamwork capacities, and
- Values such as constancy and punctuality, integrity and honesty, tolerance and respect, commitment to the institution and the society.

MASTER'S GRADUATE PROFILE

The Master's graduates in **Communication and Politics** will have theoretical and methodological tools to:

- a) Understand broadly the contemporary socio-cultural reality and perspectives offered by communication, politics and culture studies.

- b) Analyze communication phenomena from a transdisciplinary perspective.
- c) Adequately manage the acquired specialized knowledge and to apply in an innovative way theoretical knowledge to understand the social reality.
- d) Develop in an individual or collective way both academic and profesional research projects in the field of communication and politics.
- e) Practice teaching at the undergraduate and master`s levels with an adequate command of knowledge and skills of the area.
- f) Have knowledge of appropriate means and strategies to disseminate research results.
- g) Participate in the public debate on specific aspects of social issues, and to influence the formulation of public and cultural policies in line with the complexity and diversity of the contemporary sociocultural reality.

INFORMATION

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MASTER'S IN

EDUCATION DEVELOPMENT AND PLANNING

BACKGROUND

The **Master's in Education Development and Planning** is a research-oriented curriculum, which is offered to professionals from various disciplines with experience, knowledge, and professional interest in the area of education. The program offers theoretical, methodological, and instrumental elements and techniques associated to policy processes, planning, design, and development of educational projects.

The program was launched in 1991 with a duration of six trimesters and is offered every two years.

GENERAL OBJECTIVE

To train professionals in the field of education, educational development, education planning, and public policy, capable of designing, performing, and evaluating educational projects based on research processes, systematic information, and relevant diagnoses as well as formulating and carrying out research projects and educational planning in an individual way or as part of interdisciplinary teams, and capable of proposing alternative solutions to educational problems.

CURRICULUM DESCRIPTION

The curriculum is structured around the problems of education development and planning in Mexico. It comprises six Teaching-Learning Units (UEA) as well as the appropriate Communication of Results of the final research to obtain the Master's degree in Education Development and Planning.

LINES OF RESEARCH

- Educational Policies and Education Planning
- Educational System, Culture, Science, and Technology
- Current Problems and Trends in Education

DURATION

The program has a duration of six trimesters and is offered every two years.

CURRICULUM

- I. Globalization and Education at Present
 - II. Social Sciences, Culture, and Education
 - III. State Educational Policies and Education Planning
 - IV. Educational System in Mexico and its Social Function
 - V. Education Planning and Policies for Scientific and Technological Development
 - VI. Current Problems and Trends in Education
- Appropriate communication of results

ACADEMIC STAFF

We have a staff of high-level research professors recognized in Mexico and abroad, many of them have been pioneers in the analysis of issues related to education planning in Mexico.

ADMISSION PERIOD

Biennial, from April to July

ADMISSION REQUIREMENTS

Applicants must submit a graduate degree, take and pass admission exams, prepare a written essay on an assigned topic, and pass an interview.

MASTER´S GRADUATE PROFILE

Graduates of the **Master´ s in Education Development and Planning** should identify the main problems in education, make diagnoses that determine their magnitude as well as design and implement research programs and projects and educational planning that are of interest to them.

INFORMATION

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MASTER`S IN

ECONOMICS, MANAGEMENT AND INNOVATION POLICIES

BACKGROUND

The **Master`s in Economics, Management, and Innovation Policy** is a recognized postgraduate program, a **pioneer in innovation topics**. It has had the most important research group in Mexico who has dedicated to topics on Innovation Economics, Technology Management, and Innovation Policies during 54 years. The program also maintains institutional relations with other national and foreign universities programs; these relations foster the students` and profesors` mobility by keeping discussions on the current topics on innovation.

GENERAL OBJECTIVE

To train professionals and researchers of high academic level who are capable of analyzing economic, social, and administrative problems of technological change; of identifying opportunities; of proposing alternatives and business strategies for the tecnology development as well as formulation of public policies in science, technology, and innovation.

CURRICULUM DESCRIPTION AND DURATION

The normal duration is six trimesters and as the maximum term is twelve trimesters, including the preparation of the Appropriate Communication of Results and a Degree Exam.

LINES OF RESEARCH

- Innovation economy and complex systems

- Selected themes: eco-innovation, academia-business linkage, and intellectual property
- Innovation management in organizations
- Science, technology, and innovation Policies
- National, regional, and sectoral innovation systems
- Learning and accumulation of technological capabilities

CURRICULUM

- I. Economy, Organization, and Innovation
- II. Evolution, Learning, and Innovation
- III. Science, Technology, and Innovation Policies and Innovation Management
- IV. Company, Innovation, and Governance
- V. Innovation, Development, and Sustainability
- VI. Research Seminar in Economics, Management, and Innovation Policy
Appropriate communication of results

JOB MARKET

- Industrial, commercial or service companies, in strategic planning department, R & D, knowledge management, product development, plant engineering, among others, where it will be possible for the graduate to achieve management positions of responsibility.
- The National Council of Science and Technology (**CONACYT**) and its units, the **Secretariat of Economy**, the **Secretariats of Economic Development** and the **Councils of Science and Technology of the State Governments**.
- Universities, public research centers, technological institutes and universities, both in research activities and university-industry linking units.
- Consulting companies on innovation, technological monitoring, technological auditing.

ACADEMIC STAFF

We have a staff of high-level research professors who are recognized in Mexico and abroad, many of them have been pioneers in the analysis of **economic, management, and innovation policies in Mexico**.

ADMISSION PERIOD

Biennial, from April to July.

ADMISSION REQUIREMENTS

Applicants must submit a graduate degree, take and pass admission exams, prepare a written essay on an assigned topic, and pass an interview.

APPLICANT'S PROFILE

The curriculum is aimed at professionals in social sciences, basic sciences, and engineering, biological and health sciences, and art and design science; who accredit a graduate degree with a minimum average of 8 as well as knowledge, experience, and interest in technological innovation processes; and who are willing to be full-time students.

MASTER'S GRADUATE PROFILE

The graduate of the **Master's in Economics, Management, and Innovation Policies** will have theoretical, methodological, and instrumental skills of a professional and researcher of high academic level who is capable of analyzing economic, social, and administrative aspects of technological change; he will have the capability to propose alternatives and business strategies for technology development as well as formulation of public policies in science and technology, and also in innovation.

He will be a professional who is able to investigate innovation problems in products, processes, and organizations in Mexico, and to analyze, design, implement, and assess science, technology, and innovation programs at the national, regional, and local levels. He will be a specialist in the analysis of the role of technological innovation in solution of national problems in the contemporary social context.

INFORMATION

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MASTER`S IN

WOMEN`S STUDIES

GENERAL OBJECTIVE

To train high-level human resources capable of generating knowledge that fosters progress in the analysis of different realities of women and gender relations.

CURRICULUM DESCRIPTION AND DURATION

The current curriculum is of class and formal education type, with a duration of two years, and consists of 300 credits in 6 trimesters which, under the **modular system** of the UAM-X, constitute 6 Modules.

LINES OF RESEARCH

1. Gender constitution processes: family, culture, politics, history, and work.
2. Gender relations and sexed bodies.

CURRICULUM

- I. Contemporary feminism and women`s condition
- II. Theoretical problems in gender studies
- III. Institutions and spaces: family, work, and politics
- IV. Research Seminar I. Body, gender, sexual difference, and sexualities.
- V. Research Seminar II. Creation and representation of gendered cultural products
SAW. Research Seminar III. Specific methodologies for the conclusion of Appropriate Communication of Results.

JOB MARKET

- Research and teaching in institutions of higher education and postgraduate, whether in public or private universities as well as in institutes and research centers of various types.

- Participation in political, social, and civil organizations the objective of which is to promote women's full access to their rights and a dignified life, to conduct, advise on, and coordinate high-level research that contributes to the design of programs and processes of management, implementation, and evaluation of projects in the field.
- Job performance as a key element that supports theoretically and methodologically the incorporation of the gender perspective based on a professional and critical vision in public, federal, state, and municipal sectors.

ACADEMIC STAFF

We have a staff of high-level research professors who are recognized in Mexico and abroad, many of them have been pioneers in the analysis of issues related to the **Women's Studies** in Mexico.

ADMISSION PERIOD

Biennial, from January to June.

ADMISSION REQUIREMENTS

Applicants must submit their graduate degree, prepare a preliminary research project, take and pass an admission exam, and pass an interview.

APPLICANT'S PROFILE

The **Master's in Women's Studies** is a postgraduate program aimed at professionals who are interested in understanding and working on issues related to sexual differentiation and hierarchy of gender subjects, as specialists who seek to acquire or improve the theoretical and methodological tools for interpretation and analysis of these issues as well as at people who work in governmental and non-governmental programs and whose orientation is research on women, gender, and feminism. In this sense, the program provides training to people who are heading for research and teaching in this field.

MASTER ´S GRADUATE PROFILE

The Master ´s graduates will be high-level researchers with reflective and critical thinking who are able to produce world-class knowledge, who pay special attention to the society problems, and, in such a way, enter the job market of the society, specifically:

- a) They will be able to develop scientific research in different fields of social life (artistic creation, sexual diversity, social movements, reproductive health, public policies) from a feminist perspective.
- b) They will be researchers with extensive theoretical and methodological training in the understanding of social problems and complex situations in which gender subjects are involved.
- c) They will develop necessary academic qualities for training human resources through teaching and research advising.
- d) They will be able to diffuse knowledge produced through elaboration of articles, books, presentations, conferences, and products related to technologies and media.

INFORMATION

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MASTER´S IN

PUBLIC POLICIES

BACKGROUND

The **Master´s in Public Policy** has operated for 23 years. During this period there have been 12 generations with 166 master´s graduates. Since it was one of the first postgraduate programs of its kind that was taught by an institution of higher education, it has a great prestige at the national and international level.

GENERAL OBJECTIVE

To train researchers and professionals who generate and apply original knowledge in the field of public policies, in particular their design, implementation, and assessment by considering both technical and political aspects.

CURRICULUM DESCRIPTION AND DURATION

The curriculum comprises 6 trimester modules that are taught during 2 years. Although a large part of the courses are given in the morning shift, there are also some activities in the evening shift, so a wide availability of the schedule is required.

LINES OF RESEARCH

1. Social Development Policies
2. Public Management and Civil Society
3. Intergovernmental relations

CURRICULUM

- I. Public Policies: State and Society
- II. Public Policy Gestation and Formulation
- III. Public Policy Design and Implementation

- IV. Public Policy Assessment
- V. Sectoral Policies
- VI. Research Seminar

JOB MARKET

The knowledge acquired by the graduates enables them to perform the functions of a highly-qualified professional who is capable of detecting, analyzing, and proposing solutions to public problems. The Master´s training allows them to work in institutions and units of different orders of the national government: federal, state, and municipal. They can also fulfil important functions in private sector bodies or entities. Likewise, they acquire necessary knowledge to support the performance of political parties, legislative bodies, and the media.

ACADEMIC STAFF

The Master´s academic staff consists of 12 full-time professors. Approximately 90% of them hold a doctorate in various areas of social sciences and 75% are members of the **SNI** (National System of Researchers), 33% of whom are SNI 2 and 3. Many of these professors have wide national and international recognition as experts in various issues of the analysis of public policies.

ADMISSION PERIOD

Biennial, from January to April

ADMISSION REQUIREMENTS

Applicants must submit an application for admission to postgraduate studies, the graduate degree, a graduate degree certificate, a birth certificate, a proof of the English-language mastery, a letter of motivation, two academic letters of recommendation, a preliminary draft research; the must take and pass admission exams, prepare a written essay on an assigned topic, and pass an interview.

CANDIDATE´S PROFILE

The **Master's in Public Policy** has an interdisciplinary orientation, therefore, it is interested in recruiting students from all disciplines of knowledge. Although most of our students come from

the social sciences, engineers, doctors, architects, lawyers, biologists, etc. have also successfully participated in the program. Basically, three skills are sought in a candidate: first, analytical ability to apply conceptual framework of public policies to specific problem solution; second, mathematical skills that are necessary for the discipline's quantitative analysis; third, skills in language command that allow the student a clear and precise verbal and written expression of his knowledge and policy proposals, throughout the courses and, particularly, in the thesis development.

It is equally important that the candidate has a strong intellectual motivation for understanding complex situations and problems such as public affairs as well as a social commitment to his community in order to contribute to improving the fellow-citizen living conditions.

MASTER´S GRADUATE PROFILE

The graduates will acquire necessary knowledge and skills to investigate public problems and their possible solutions. They will also be able to investigate the processes through which public policies are elaborated, implemented, and evaluated. The received training will provide the graduate with the analytical capability that is necessary to investigate bases and conditions of the main public sociopolitical and governmental economic decisions.

Likewise, the acquired knowledge will allow the graduate to participate as a professional in construction of more rational and participatory policy options for solution of socially relevant problems, in their detection and definition phases as well as in their design, implementation, and evaluation.

INFORMATION

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MASTER´S IN

SOCIAL PSYCHOLOGY OF GROUPS AND INSTITUTIONS

BACKGROUND

The field of study that defines this Master´s arises from the joint analysis of group and institutional phenomena as a strategy that aims at knowledge production in relation to individual and collective subjectivity processes.

The **fundamental criterion** that gave rise to the **Master´s Project in Social Psychology of Groups and Institutions** was its relevance to meet the needs of the country social development in the context of the options posed by the national educational system at the postgraduate level.

GENERAL OBJECTIVE

To train professionals of high academic level who are able to investigate and intervene in the problems of group and institutional processes from a psychosocial perspective primarily in the Mexican and Latin American reality.

CURRICULUM

- Transdisciplinary perspective. The Master´s offers a proposal in line with the theoretical and methodological contributions that have emerged in the recent years in the Social Sciences and have focused on the issues from different disciplines such as cultural studies, postcolonial studies, gender studies, forms of psychosocial intervention, new perspectives on subjectivity, memory, and identity. Under this approach, social problems are addressed and understood in terms of multireferentiality. In this sense, the

postgraduate program justifies and promotes the situation in which the **Basic Academic Staff** comprises professors from various disciplines of Social Sciences and Humanities, so that altogether they are able to diversify the visions and analyses of social issues, human issues, groups, institutions, and different ways of social organization.

- Academic model. The Master's structure is based on the **Modular System** which organizes the academic work around different problems of the reality (modules) that are addressed each trimester in various seminars and other forms of academic work. The Master's program is more than a traditional teaching-learning model; it fosters knowledge production processes in collective spaces, in other words, it is an innovative educational project that has inspired alternative educational and social practices.
- Research. **The Master's** specific field is that of groups and institutions that are understood as concrete forms of social relation manifestation and of subjectivity configuration that are susceptible to analysis and specialized intervention processes. The fundamental question of this field refers to collective subjectivity processes that are put into play in any group task or joint project. This dimension has to do with correlation or interweaving that produces and reproduces social forms (institutional level) and group changes. The curriculum objective is to train high-level researchers who are able to implement social practice aimed at understanding and intervening on relevant problems of the Mexican and Latin American reality, such as inclusion and social exclusion processes, recognition of minorities and different social sectors, organizational processes of the civil society and new social and political actors, institutional rehabilitation and reintegration projects (prisons, psychiatric hospitals, shelters, etc.), promotion of cultural spaces at the popular level, recovery and recreation of the memory that sustains collective identities. In these research areas, field work and its analysis are fundamental.

Teacher training. The Master's promotes student's specialized skills to develop and apply various group devices such as reflection groups, operating groups, role playing, collective counseling workshops, etc.

Today, if we think of a concrete society, specifically the Mexican one that is characterized by dense institutionalization and is involved in a deep crisis, if we consider that any nation or organization project, both at global and particular levels, can be effective only if the social actors – individuals, groups, and organizations – have adopted such projects, have endowed them with meaning according to their wishes, values, and ideology, we can conclude that the training provided by the Master's is fully justified, it is not only relevant but even necessary in the present day, since nowadays the problems that affect communities require professionals who graduate from this kind of postgraduate programs.

ADMISSION PERIOD

Biennial, from January to July

ADMISSION REQUIREMENTS

Applicants must submit a graduate degree certificate, take and pass admission exams, prepare a preliminary research project, and pass an interview.

CANDIDATE´S PROFILE

- Interest in the research and intervention oriented to the field of the Master´'s studies and disposition to explore subjectivity processes that are implied in the Master´'s training.
- Ability to listen and sensitivity to group work.
- Creativity and openness to a critical and searching thinking in relation to subjectivity and social processes.
- Time availability to undertake postgraduate studies. The Master's program is full-time.

MASTER´'S GRADUATE PROFILE

The abilities that the graduates of the **Master´'s in Social Psychology of Groups and Institutions** are expected to have are:

- To have theoretical, epistemol3gical, and methodological resources to perform their practice in a critical way within the framework of Social Sciences, and to discriminate appropriate methods with the aim of addressing problems of his expertise, with foundations and tools for qualitative research in the field of group and institutional processes.
- To be theoretically, methodologically, and technically qualified in the field work with groups and institutions to support collective processes of task management and/or projects, and to clarify group and institutional situations that arise out of them.
- To be subjects with critical resources, self-reflection, and capacity to dialogue with their social reality and to understand group and institutional processes beyond the obvious and evident.
- To have broad teaching capability based on the understanding of the group learning processes as well as on generating innovative experiences in the field.

INFORMATION

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MASTER´S IN

INTERNATIONAL RELATIONS

OBJECTIVE

To train researchers, professionals or professors of high academic level who are capable of critically examining the processes of regional integration in globalization, based on the dynamics of current economic and political transformations and their influence in reshaping a new world order.

SPECIFIC OBJECTIVES

- To identify the link between the State and the market that is based on different trends of theoretical interpretation in economics and international policy.
- To analyze different contemporary theoretical trends on the process of globalization and its impact on different world regions.
- To understand the integration processes in Europe, from its origin to its recent evolution, by identifying the relations of cooperation and conflict.
- To differentiate between the historical integration process in Latin America and the current strategy of open regionalism in South America.
- To assess the economic process of North American integration and its security and prosperity issues in the region.

CURRICULUM DESCRIPTION

The Master's program addresses, from a multidisciplinary perspective, various problems that arise from the relations established by the countries within the complex processes of globalization and regional integration which have given rise to a new world order that requires the training of high-level professionals and researchers who interpret and propose innovative ways of region, country or sector insertion from this perspective.

LINES OF RESEARCH

- International relations and solutions to power conflicts.
- International economic relations: multilateralism, regionalism, and/or bilateralism.
- Cooperation and integration: possibilities and limits of political-action power transfer.
- International relations: geopolitics, geoeconomics, and geoculture.

CURRICULUM

UEA I: International Policy

UEA II: World Economy

UEA III: European Union and Asian Integration

UEA IV: Integrations in Latin America and the Caribbean

UEA V: North American Free Trade Agreement

UEA VI: Perspectives in the face of globalization and regionalization

JOB MARKET

The objective of the curriculum is to train professionals, researchers, and professors who can hold in public or private senior management positions: advisors on the design of policies aimed at addressing the problems generated by globalization and regional integration, in international organizations, government institutions, as well as in Company management, workers' organizations, media, and non-governmental organizations.

The Master's graduates, in addition to gaining deeper understanding of international relations in the economic and political sphere, have instrumental, quantitative, and qualitative tools that are needed to support problem solving.

ACADEMIC STAFF

The Master's has a basic **academic staff** that includes eleven full-time professors, all of them are members of the UAM personnel and carry out both teaching and research activities. The professors' academic productivity and specialization in politics and international economy have identified the lines of research that are necessary in the students' professional training in the Master's in International Relations.

The academic staff comprises 100% full-time professors hired for an undetermined period of time. All of them hold a doctorate with specialization in the program subjects. 63% of the pro-

fessors are **membres of the SNI**, one professor is level III, three are level II, and three are level I. The academic staff includes one distinguished professor.

ADMISSION PERIOD

The **Master`s in International Relations** opens a call, by decision of the Academic Commission, every two years. Similarly, the Commission defined the following guidelines for the student selection process:

- a) selection process calendar;
- b) review of projects, as a first admission filter, while taking into account their relationship with a Line of Generation and/or Application of Knowledge and the average number of students;
- c) attending the preparatory course during one month, with daily classes of three hours;
- d) exam on the basis of the preparatory course, as a second admission filter;
- e) English language exam taken the students who passed the course exam; and
- f) interview with some of the members of the Evaluation Commission.

ADMISSION REQUIREMENTS

- Application for admission to the postgraduate studies
- Graduate degree in the area of Social Sciences, or other discipline that is relevant in the opinion of the Academic Commission.
- Certificate of undergraduate studies with a minimum of 8.0 on a scale of 10
- Birth certificate
- Mexican or Foreign Applicants, Unique Code of Population Registration (CURP)
- Curriculum Vitae with supporting documents that show knowledge and experiences in the field (teaching, research, publications, professional experience).
- Letter of motivation, interest and general purposes, as well as justification of application for a line of research.
- Academic letter of recommendation.
- Preliminary research project which, in the opinion of the Academic Commission, is relevant to advance towards an appropriate Communication of Results.
- Proof of reading comprehension in English, supported or issued by the Coordination of Foreign Languages of the UAM-Xochimilco
- Accepted foreign applicants must present an Immigration Document.
- Accepted foreign applicants must submit apostilled documents (birth certificate, un-

dergraduate study certificate, degree certificate, curriculum, and programs) according to the Hague Convention or that are legalized by the Mexican Foreign Service, and, in case of being written in a language other than Spanish, they must be accompanied by the translation performed by an authorized expert.

- Accepted applicants who studied abroad, must submit the administrative origin of the application for total revalidation of the studies of the required Degree in the Academic System Department of the UAM.

CANDIDATE ´S PROFILE

Graduates of different areas in social sciences and other related disciplines will be accepted in this program, which, in the opinion of the Academic Commission, can be linked to the subjects of the postgraduate program, in particular, International Relations, Sociology, Economics, History, Political Science, Law, and Public Administration.

Applicants are required the use of:

- Applied statistics
- Skills to conduct research with theoretical foundations of international relations.
- English language skills, between 4 and 5 on the TOEFL test scale, the scale of which is from 1 to 6.

MASTER ´S GRADUATE PROFILE

The Master ´s graduate will be able to:

- Perform a critical analysis of international relations, based on policy theories and international economy theories.
- Assess critically aims and means defined individually or collectively by political and economic actors in their plans and programs for the international society management.
- Assess critically the circumstances in which political and economic actors perform individually or collectively at various multilateral, plurilateral, and regional levels of international governance.
- Explain commercial and financial flows by using statistical techniques, and also explain how these flows produce increased productive integration into the world economy.

INFORMATION

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MASTER´S IN

SUSTAINABLE SOCIETIES

BACKGROUND

In 40 years of academic activities, the UAM has managed to consolidate itself as one of the most important higher educational institutions in the country due to its teaching, research, and social commitment vocation. The Campus Xochimilco is distinguished by its training for research and social transformation based on the **modular system**, focused on transformation objects from which the teaching-learning contents and units are constructed.

The **Master's in Sustainable Societies** is linked to this pedagogical proposal; it is taught under an innovative and integral teaching-learning model and is the first postgraduate program in the UAM that is carried out in the blended mode, by combining classroom forms and, above all, distance (online) ones. The academic proposal is oriented to study the processes of building sustainable societies through collective and intercultural knowledge production.

OBJECTIVE

To train researchers, professionals, and professors who, in addition to gaining mastery of methodological tools and critical analysis skills, acquire creative skills that contribute to the construction of sustainability in the societies in which they have an impact and that correspond to the society needs in the historical development conditions.

CURRICULUM

The academic proposal includes innovative elements such as a critical perspective of sustainability, intercultural approaches in knowledge construction and research as a transversal process in the students´ training.

In addition, the mode of education and operation of the Master's degree is blended, as it combines face-to-face and distance learning. In this way, the **Master's in Sustainable Societies** is the first postgraduate program in the UAM which is fundamentally promoted under the online mode, not only as a set of technological and communication tools used to support the educational process, but as an comprehensive teaching-learning proposal.

LINES OF RESEARCH

- Capitalist globalization process and its socio-environmental effects.
- Conflicts and socio-environmental urban and rural actor movements.
- Strategies and alternatives of social organizations, governmental and academic institutions, and companies in the promotion of sustainable societies.
- Dialogue local, scientific, and technological knowledge about sustainability.
- Relations between the genders and generations in the ways of natural resource appropriation.
- Public policies and power relations in the processes of constructing sustainability.

CURRICULUM

- I. Society and sustainability
- II. Environmental dimension in the society-nature relationship
- III. Economy and sustainable production
- IV. Socio-cultural perspectives on sustainability
- V. Sustainable societies and their political dimension
- VI. Sustainable society proposals

ACADEMIC STAFF

A staff of high-level research professors is recognized in Mexico and abroad, many of them have been pioneers in the analysis of issues related to the society sustainability in Mexico.

ADMISSION PERIOD

Biennial, from April to July

ADMISSION REQUIREMENTS

Applicants have to submit a graduate degree certificate, take and pass admission exams, prepare a written essay on an assigned topic, and pass an interview.

MASTER´S GRADUATE PROFILE

The **Master´s** graduates will:

- a) know and use theoretical and methodological tools that allow them to identify and analyze contemporary society problems in relation to the environment, as well as to develop innovative proposals in order to promote sustainable societies, in accordance with historical and sociocultural needs of various social groups;
- b) acquire sufficient competences in order to participate in research, to carry out critical and propositive studies in relation to the socio-environmental problems that afflict different societies;
- c) have competences to perform specialized-teaching tasks in an updated and systematic way;
- d) have necessary capabilities to design, coordinate, and assess sustainable development projects, programs, and policies in social, civil, public, and private organizations.

INFORMATION

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CBS

**Biology
Postgraduate
Degrees**



MASTER´S IN

AGRICULTURAL SCIENCES

The **Master's Program in Agricultural Sciences** was approved as a **postgraduate research** course in October 2001 and began its formal operations in January 2002. It is organized academically as a face-to-face course comprising three modules and a tutorial phase with the same number of modules. With a minimum qualification period of 6 quarters and a maximum time of 14, it is incorporated into **CONACYT's** National Postgraduate Quality Program (PNPC). The last evaluation was carried out in February 2012 where it was accredited as a postgraduate degree in **consolidation**.

Its high academic quality and the levels of satisfaction and commitment of the professors and students helped the program earn the International Prize from the Iberoamerican **University Association of Postgraduate Universities** (AUIP): Award for Postgraduate Quality in Ibero-America in 2010.

By 2014, the program was comprised by 21 full-time professors, all of them with doctoral degrees and the desirable **PROMEP** profile. 16 of these professors belong to the SNI (76.2%), one with level 3, four with level 2, and eleven with level 1.

The main indicator with which we can measure the contribution to the generation of knowledge are scientific articles published from research projects. By mid-2013, 86 graduate students have been identified, with 15 articles already published in indexed journals and / or with external arbitration in the agricultural sector. There are 6 other items sent or in the process of arbitration. 25.54% of the graduates have published the results obtained in their postgraduate, which indicates their continuity as researchers. Of these individuals, 93.75% of the total did so in a research journal which speaks for itself of quality at the end of the postgraduate course. A book of ethology and wildlife are highlighted with ISSN No. 968-6404-92-9; the Animal Health magazine, No. ISSN: 253-570X and the "Veterinaria Mexico" journal in the CONACyT registry, with ISSN: 301-5092.

This **Agricultural Sciences MSc** has several specific collaboration agreements that allow to maintain links with national and international higher education institutions, as well as with governmental and private initiative institutions. Some of these are:

- University of Veracruz
- University of Buenos Aires
- Institute of Agricultural Technology of Argentina
- Faculty of Veterinary Medicine and Zootechnics, UNAM
- Ensenada Center for Scientific Research and Higher Education (CICESE)
- University of the Andes, Merida, Venezuela
- University of Murcia, Spain
- University of Montreal, Canada
- Soil Institute, Havana, Cuba
- University of Maryland, United States

GENERAL OBJECTIVE

To train human resources oriented to the generation of original knowledge, with skills, attitudes and values that allow them to carry out research and development activities that provide explanations and solutions to the problems of production and the agricultural and agri-food industry.

SPECIFIC OBJECTIVES

To develop human resources capable of contributing to a sustainable agricultural production.

To train human resources capable of analyzing, formulating proposals and applying solutions to the different socioeconomic and problematic aspects of the biology of agricultural production that condition rural and agricultural development.

To train human resources capable of analyzing, formulating proposals and applying measures of quality and food safety for human and animal consumption.

CURRICULUM

- I. Determinants and Evolution of Science and Technology in the Mexican Agricultural and Agri-Food Sector
- II. Identification and Approach of the Research Problem in Agricultural Sciences
- III. Planning and Design of Agricultural Research
- IV. Research in Progress Seminar I
- V. Research in Progress Seminar II
- VI. Communication in Agricultural Sciences and Technologies

MASTER´S GRADUATE PROFILE

- Graduates have a theoretical overview as well as a critical and reflective, global and relevant perspective on the development of the agricultural and agri-food sector, based on a solid theoretical and methodological training.
- Graduates have a comprehensive education and humanistic values, committed ethically with the agricultural and agri-food development in Mexico.
- Graduates gather methodological cabinet, field and laboratory competences to diagnose and approach concrete problems, design, develop and implement alternatives through the use of state-of-the-art technologies in order to propose viable solutions to problems related to the agricultural and agri-food production of the country.
- Graduates master oral and written communication, as well as writing of scientific articles.
- Graduates use the necessary computer tools for the development of their professional activity.
- They have a sense of organization and ability to integrate and develop inter and multi-disciplinary work that allows the strengthening and integration of their labor and professional skills in the agricultural and agri-food sectors.



MASTER´S IN

PHARMACEUTICAL SCIENCES

Masters in Pharmaceutical Sciences participate professionally in the pharmaceutical industry, in public and private hospitals, and in government agencies or entities that promote and protect health. Their professional activities involve the development of plans and strategies for the conservation and recovery of the health of Mexicans, always seeking to maintain or improve the quality of life of individuals. In hospitals they can manage resources and coordinate health services. Graduates of this postgraduate course also **participate in the processes** of obtaining and valuing active principles, and in the design, elaboration and dispensing of medicines. Other graduates continue with doctoral studies, and participate in the research and generation of alternative methodologies tending towards technological innovation.

GENERAL OBJECTIVE

To train human resources capable of carrying out research, teaching and service activities, oriented towards the generation of original scientific, technological and humanistic knowledge in the field of Pharmaceutical Sciences.

CURRICULUM

I or II or III	Theory and Methods in Pharmaceutical Research
I	Planning and Design of Research in Pharmaceutical Sciences
I or II or III	Physicochemical Bases of Biological and Pharmaceutical Processes
II	Research Seminar I
I or II or III	Drug-Organism Interactions
III	Research Seminar II
IV	Research Project I
V	Research Project II
VI	Research Project III

MASTER ´S GRADUATE PROFILE

Graduates will be trained to identify and solve problems and challenges in pharmaceutical activity, tasks that are part of the Health System in Mexico. Graduates of this program will be able to develop their professional activities in the different emerging fields of pharmaceutical sciences, in new subjects that derive from changes in legislation, social demands and the technological and scientific advances in health.



MASTER´S IN

HEALTH SCIENCES OF WORKERS

The MSc in Health Sciences of Workers, is part of the National Postgraduate Quality Program (**PNPC**) of the National Council of Science and Technology (**CONACYT**) since 2006. It is currently under the title of a consolidated program and schooling mode, cataloged according to **CONACYT** as a postgraduate program with professional orientation, which provides its students with a strong training in a field of knowledge with high capacity for professional practice.

The research projects approved by the Divisional Council of Biological Sciences and Health have financing for their development. 75% of the **academic staff** obtained a doctorate degree in different disciplines and 38% of our teachers belong to the **National System of Researchers**. Scientific production is very good, since teachers publish at least one article per year in indexed journals and participate actively in various national and international events, in collaboration with the students of the Master Program. This postgraduate course organized an international congress in 2014 and two national forums in 2015-2016 with various workers' organizations. In addition, these research professors participate with institutions and universities in Latin America and Spain, as well as with national public universities and the **Mexican Institute of Social Security** (IMSS).

The importance of the discipline for Mexico lies in the need to train highly qualified personnel to meet the needs in the field of occupational health presented by more than 866 000 companies that exist in the country, only in the private sector, which employ 17 million and a half workers, according to the statistical information provided by the **IMSS** in 2016.

This MSc has a terminal efficiency in the last five generations above 74%; reaching in two periods, percentages of up to 89% of students with a degree. It tracks 88% of the graduates, which showing that 91% of them were very satisfied with having completed this postgraduate course, 94% rated it as good or excellent and 92% would do it again. In addition, 82% of alumni had a job, of which 72% worked in highly relevant jobs within their field of study, according to data obtained in the last graduate follow-up.

The quality of the training provided to the students can be verified through the publication of the results of their research carried out under the direction of the teachers of the program. In

the 2014-2016 period, twenty-three specialized research articles were published as well as two book chapters and an electronic book, in which many students participated.

GENERAL OBJECTIVE

To train human resources that respond to the needs of health at work; qualified for a comprehensive treatment of problems in this area; seeking the generation of new knowledge through research and provision of services to social groups involved in the area, with emphasis on health promotion actions.

CURRICULUM

Its **curriculum** is comprised by the following compulsory subjects:

- I Occupational Epidemiology
- II Work Hygiene and Physiology
- III Pathology and Labor Legislation
- IV Mental Health of Workers
- V Workers and Health: Their Culture and History

MASTER´S GRADUATE PROFILE

The graduate profile includes the following qualities:

- The graduate must have a solid scientific and technical training in aspects related to occupational health and be qualified for a comprehensive treatment of the problems in this field.
- In addition, they will be able to influence companies and educational institutions, as well as worker organizations to contribute to the transformation of harmful working and health conditions in Mexico and eventually in other Latin American countries.
- They will possess a comprehensive social vision that allows them to solve specific problems. Also, the graduate must acquire an integral training for research and the generation of new knowledge.

MASTER´S IN

APPLIED ECOLOGY

The **Master’s Program in Applied Ecology** was approved in November 2013 by the Academic College of the Autonomous Metropolitan University (UAM) and is incorporated into the post-graduate educational offer of the **Biological Sciences and Health Division** of the Xochimilco Campus.

During the design of the proposal, teachers from the **Department of Man and its Environment** (DEHA) analyzed new emerging practices in the exercise of biological sciences, with emphasis on those aimed at preventing, mitigating or reversing the undesirable effects of human activities on the environment. Based on this, current trends of knowledge and methodological strategies were integrated for the search of solutions to the problems in the use and conservation of biotic natural resources, emphasizing the orientation of economic ecology, social sciences and technological advances.

In this **MSc**, research is privileged under the following generation lines and application of knowledge: Landscape Ecology, Applied Ecology to Microbial Systems, Ecology Applied to Production Systems and Ecology Applied to Environmental Education. Its teaching staff is made up of doctors and teachers in science, with different institutional affiliations and academic trajectories recognized by the **Ministry of Public Education** through the Program for the Improvement of Teachers (**PROMEP**), and by the National System of Researchers of the National Council of Science and Technology (**CONACyT**).

GENERAL OBJECTIVE

To train professionals in the research or development exercise for the search of solutions in the field of conservation and sustainable use of natural resources, with a systemic vision and under the principles of economic ecology that allows the generation of original knowledge.

SPECIFIC OBJECTIVES

Upon completion of the program, the student will be able to:

- a) Address issues of conservation and sustainable use of natural resources with a holistic perspective.

- b) Develop the capacity to interact with professionals and experts of different disciplines, to understand problems in the use and conservation of biotic natural resources.
- c) Generate proposals for solutions to problems in the conservation and use of natural resources, through the development of basic and applied scientific research.
- d) Participate in the generation of environmental education proposals that contribute to the conservation and sustainable use of natural resources.

CURRICULUM

This MSc in Applied Ecology is structured into ten compulsory teaching units: four Theoretical units (112 credits), four Research Work units (40 credits) and two Research Seminars (68 credits). Also, the Master's Thesis and the Master's Degree Exam have a weight of 20 credits.

- I Economical and Economic Fundamentals for the Use and Conservation of Biotic Natural Resources Research Project I
- II Social Determinants in the Use and Conservation of Biotic Natural Resources Research Project II
- III Causes and Effects of Technology on the Use and Conservation of Biotic Natural Resources Research Project III
- IV Transfer of Technology in the Field of Applied Ecology Research Project IV
- V Research Seminar I
- VI Research Seminar II

MASTER'S GRADUATE PROFILE

Graduates from the Master's Program in Applied Ecology will:

- Possess theoretical and methodological bases for the search of solutions to problems of the conservation and sustainable use of biotic natural resources, with a systemic perspective and under the principles of economic ecology.
- Acquire the ability to integrate humanistic values into proposals for solutions to problems of biotic natural resource management, ethically congruent with Mexico's development.
- Demonstrate sufficiency in oral and written communication using various computer tools.
- Interact with professionals from different disciplines to address complex problems and generate proposals for solutions based on viable and sustainable theoretical, methodological and technological approaches.
- Transfer the knowledge of their research results to the social, public and private actors associated with the decision making process for the sustainable use of natural resources.

MASTER´S AND SPECIALIZATION IN

SOCIAL MEDICINE

The **MSc in Social Medicine** was born in 1975. It is the first postgraduate program of the University and has been supported by the Pan-American Health Organization since its very beginning. Throughout its 39 years of experience, it has formed 29 generations and 165 Masters in Social Medicine. The contributions to scientific knowledge in the field of health of human groups have been outstanding and show the degree of consolidation achieved by the program, which has allowed it to be recognized by different institutions, including the National Council of Science and Technology (**CONACyT**). The Masters Degree in Social Medicine maintains an alternative vision to the dominant approaches in public health. In proposing that epidemiological profiles and health practices are socio-historical, **Social Medicine** explains the differences in the morbidity and mortality of human groups according to their insertion in the economic structure, as well as their position in power relations and in the field of culture. The premises of the social determination of the collective health-disease process allowed important advances in the delimitation of this field of study and continue to be explanatory of the health conditions of human groups.

The Master's Degree in Social Medicine maintains **close ties** with various institutions in Mexico and internationally. The program and its teachers are recognized in Mexico and Latin America as a reference group in the study of the social determinants of health and healthcare reforms in Latin America.

Among its links are the collaboration agreements with: University of Valparaiso (Chile), University of Seville (Spain), National University of Colombia, Austral University of Chile, Universidad Andina Simón Bolívar, University of Laval (Canada).

Our teachers participate in several networks, among which are: **National Network of Urban Research, Mexican Network of Social Development Projects**, Mexican Network of Health Policy Analysis, ALFA National Health Services Research Network, Research and Development Consortium in the Health State Systems, among others. They also maintain links with national and international scientific associations such as the Mexican Society of Public Health, Mexican Association of Biological Anthropology, Mexican Academy of Bioethics, Latin American Association of Sociology, Latin American Association of Social Medicine, Ibero-american Society of Medical Law, Latin American Federation of Societies of Sexology and Sexual Education, Latin American Studies Association, International Association of Health Policy, Latin American Association for

the Analysis of Health Systems, WC2, World Justice Project (WJP) and the Pan-American Health Organization, among others.

GENERAL OBJECTIVE

To train human resources with the capacity to generate theoretical, methodological and technical knowledge related to collective health, as well as in the teaching, research and service fields in Social Medicine.

CURRICULUM

- I Health and Society
- II Distribution and determinants of health and disease
- III Medical Practice and Human Resources
- IV Thesis Workshop I
- V In-depth seminar
- VI Thesis Workshop II
- VII Teacher Training Seminar
- VIII Thesis Workshop III
- IX Optional Seminars

MASTER ´S GRADUATE PROFILE

Graduates will be able to formulate and solve problems, as well as generate knowledge and perform service activities in the area of social medicine.



MASTER´S IN

ORAL PATHOLOGY AND BUCCAL MEDICINE

The postgraduate course in **Oral Pathology and Buccal Medicine**, which presents unique characteristics in Mexico, joining the clinical aspects (oral Medicine) with the histopathological ones (Oral Pathology) of oral disease, has been characterized by its constant evolution since it was created, entering the **PNPC** at the Recent Creation level.

SOCIAL AND ACADEMIC RELEVANCE

In Mexico, research in the field of dentistry has maintained a gap in relation to the world scientific production and is far from the research in new models that explain and attend oral health issues. The small number of trained researchers in Oral Pathology and Buccal Medicine causes research carried out in Mexico in this area to be scarce, epidemiological data to be almost non-existent, and the field in general to be underdeveloped.

In medical and dental literature there are abundant reports on diseases that can be detected from their oral manifestations, such as diabetes mellitus (DM) and hyperparathyroidism; hematological alterations such as thrombocytopenic purpura and neutropenia, numerous dermatological diseases, neoplasms and genetically determined syndromes. In our country, an important and little considered aspect in the care of the diabetic patient is the relationship between diabetes and its degree of control with the appearance of multiple alterations in the buccal mucosa, periodontal tissues and dental organs.

For these reasons, the main activities of the MSc in Oral Pathology and Buccal Medicine will be the development of research, which allows to know the origin and the various characteristics of oral diseases in our population, as well as greater knowledge of their pathogenesis, and the development of activities aimed at the diagnosis, treatment and, where appropriate, reference to the corresponding specialist, of the affected patients. Oral Pathology and Buccal Medicine are also responsible for creation or promotion of Medicine and Oral Pathology programs in the institutional academic and hospital environment.

THEORETICAL AND PRACTICAL RELEVANCE

The postgraduate program in **Oral Pathology and Buccal Medicine** is justified by the existence of orofacial conditions that do not belong to a specific medical area and are between medical and dental care. Professionals in both branches often lack knowledge for their diagnosis and management. The research group in Oral Pathology and Buccal Medicine has been developed and strengthened thanks to the collaboration of Research Professors from the Department of Health Care of the UAM-Xochimilco Campus and researchers from other institutions in the health sector, such as the National Institute of Medical Science and Nutrition “Salvador Zubirán” (**INCMNSZ**), the National Institute of Respiratory Diseases (**INER**), National Institute of Cancerology (**INCan**), **General Hospital “Dr. Manuel Gea González”** and the Condesa Specialized Clinic (**CEC**) of the Government of Mexico City.

ATTENTION TO SOCIETY’S NEEDS AND DEMANDS

The program has had a local, national and international demand. Aspirants to this program have come from different universities in Mexico City, different states of the Mexican Republic and Latin American countries like Colombia, Panama, Guatemala and Venezuela. This postgraduate degree is a response of the UAM-Xochimilco Campus to the need to train qualified professionals in research and service for solving oral health problems, as a response to the deficiencies in the training of human resources in the area of Oral Pathology and Buccal Medicine, trained in teaching, research and service.

Due to the training provided, the graduate has a fundamental role as part of the multidisciplinary teams for the optimal management of patients, since it facilitates their management and brings benefits to the economy, which is often affected not only by the high costs of health-care, but because of the difficulty in finding the person who makes the correct diagnosis and treatment, sometimes having to go to more than one specialist.

Contribution to cultural, scientific or technological development

The development of research studies within the framework of bioethics contributes to the knowledge of the pathogenesis and characteristics of oral diseases that affect the population. This postgraduate program is the result of the consolidation of one of the most recognized research groups in Mexico and Latin America as a program of excellence.

Postgraduate research projects have addressed relevant health issues such as oral mucosa and maxillary diseases, oral manifestations of HIV infection and oral cancer.

The program has an outstanding academic productivity, which is also used as support for teaching and dissemination of knowledge, due to the fact that, in our country, research in the area of Oral Pathology and Buccal Medicine is insufficient. The contribution to the knowledge that has been achieved in the area of Pathology and Oral Medicine through postgraduate studies can be measured with the results of research in national and foreign journals and in the increasing participation of teachers and students in national and international scientific events.

GENERAL OBJECTIVE

To train human resources at the **Master's level in Oral Pathology and Buccal Medicine** capable of performing diagnostic and therapeutic activities, as well as research, teaching and service activities for the study of health problems from a scientific and social perspective.

CURRICULUM

The program is composed by 8 compulsory subjects that are developed in 2 years. The structure of the curriculum is described below:

- I Oral Pathology and Buccal Medicine I
- II Oral Pathology and Buccal Medicine II
- III Oral Pathology and Buccal Medicine III
- IV Research Project I
- V Research Seminar I
- VI Research Project II
- VII Research Seminar II
- VIII Research Project III

MASTER'S GRADUATE PROFILE

To carry out comprehensive diagnostics that contemplate the epidemiological, clinical and histopathological aspects of the main pathological processes related to the mouth and interact with specialists from other fields of knowledge.

To efficiently plan and execute the treatment of diseases affecting the oral and maxillofacial region and refer cases to other medical specialties when needed.

To apply strategies for appropriate patient care.

To plan, design and execute research projects in the area of Oral Pathology and Buccal Medicine.

To be able to present the results of their research in the field of Oral Pathology and Buccal Medicine to the scientific community.

To be able to participate in planning, organizing, operating and evaluating academic programs in Oral Pathology and Buccal Medicine.

ACQUIRED KNOWLEDGE

- Pathology, Oral Medicine and related sciences (Histology, Embryology, Imaging, Anatomy, Epidemiology, Pharmacology, Therapeutics, Physiology and Surgical Techniques) that allow an integral diagnosis and appropriate and timely treatment.
- Scientific method.
- Epidemiological method.
- Clinical method.
- Bioethics.
- Current research projects in Oral Pathology and Buccal Medicine (Histology, Embryology, Immunology, Pharmacology, Physiology, Genetics, Molecular Biology, Biostatistics and Bioethics).
- Evaluation of educational models (Theories of education, pedagogical techniques and tools).

ATTITUDE AND PROFESSIONAL ETHICS

Graduates must have social sensitivity to clearly identify the demands of the population's attention in the different socioeconomic strata of their locality and the country responding to it with professional quality.

Students must act with professional ethics in their activities in the application of knowledge. They recognize the limits of their knowledge and skills and are responsible for their constant updating and improvement of skills in their professional practice.

They respect nature and the human beings that interact with it, regardless of socioeconomic and cultural level, nationality, origin, race, religious beliefs, age or gender, respecting at all times the dignity and rights of each person.

Graduates act with critical judgment against the scientific information and possess flexibility and willingness to work as a team.

They are responsible and promote and participate in scientific, technological, academic and professional advances.

MASTER´S IN

NEUROLOGICAL REHABILITATION

(CHILD HEALTH AND PREVENTION OF DEVELOPMENTAL SEQUELAE)

The program is aimed at professionals in the fields of health, psychology and education (medicine, nursing, nutrition, psychology, special education, human communication, physical and occupational therapy) interested in health and child development.

The mission of **this program** is to train professionals at **the master level** with the capacity to state and solve socially relevant problems in the health field related to the prevention of alterations in child development caused by various damages to the nervous system, as well as to promote and disseminate preventive practices in the medical, educational and social assistance fields, integrating fundamental characteristics in their practice to professional ethics, collaborative and interdisciplinary work, integrating research, teaching and service practices, with the purpose of contributing to national development with competitiveness, sustainability and equity, compatible with the identity features of the Autonomous Metropolitan University (UAM). The program is enrolled in the National Standard of Postgraduate Quality (**CONACyT**) at the consolidated level.

GENERAL OBJECTIVE

To generate new knowledge on the aspects of the comprehensive rehabilitation of individuals who present risks of deficiencies (sequels), limitations on social activity or restrictions on social participation through theoretical and practical activity at all levels of the pyramid of health care. To train human resources of high academic level qualified in research, service and teaching activities in the area of preventive rehabilitation of individuals who present risks of deficiencies (sequels), limitations in the activity or restrictions on social participation.

CURRICULUM

- I or III Normal and Pathological Development of the Early Period
 - I Instrumental Activities I
- II or V Early Intervention Models
 - II Instrumental Activities II
- I or III Normal and Pathological Development of Complex Mental Processes
 - III Instrumental Activities III
- II or IV Adaptive Reorganization Processes
 - IV Instrumental Activities IV
- V Thematic Seminars
 - V Instrumental Activities V
- VI Research Seminar
- VI Final Report Preparation Activities

MASTER´S GRADUATE PROFILE

ACQUIRED KNOWLEDGE:

Graduates from the **MSc in Neurological Rehabilitation**, will have acquired a solid theoretical training at the end of the program that will allow them to:

- Identify the mechanisms of the process that starts with risk factors for the establishment of neurological damage that lead to the formation of sequelae and condition deficiencies, limitations in activity or restrictions on social participation, through the analysis of categories and concepts of development and human activity in situations of normality or pathology.
- Understand the different theoretical conceptions, laws and invariants of human development in the face of normality and neurological damage, which will allow the construction of a model that integrates the actions of detection, diagnosis and timely intervention.
- Gain knowledge about various models of the nervous system's functioning both among normality and among damage, which allow them to explain the processes of organization, brain plasticity and nervous reorganization.
- Understand the characterization of various instruments and tests for the detection and diagnosis of alterations in child development (validity, reliability, predictive value, sensitivity, specificity), as well as the therapeutic intervention models in terms of efficiency, efficacy and effectiveness

- Explain the social historical process in attending deficiencies, limitations in the activity or restrictions in social participation, according to diverse conceptualizations of health and disease, ideological-normative practices, policies in health and education, institutional systems, concepts and disciplinary techniques that allow our graduates to abstract the current practice model.
- Manage theoretical, methodological and technical elements of various scientific research models (clinical, epidemiological, basic-applied and qualitative).

GRADUATE SKILLS

With the acquired knowledge and the support of their tutor, graduates will have the ability to:

- Integrate relationships and coherence between theoretical models and operational procedures in the evaluation and early intervention of child development in different areas of action.
- Identify biological, psychological and social variables and indicators of risk or alteration in child development, using different scales and instruments for the detection and diagnosis of neurodevelopment.
- Execute the planning, direction, operation and evaluation of programs of therapeutic intervention in the field of developmental alterations due to neurological damage, integrating the elements inherent to the characteristics of the individual and those related to the social environment.
- Develop, deliver and coordinate teaching programs aimed at training human resources in the health, social assistance and education fields for the detection, diagnosis and attention of alterations leading to deficiencies, limitations in activity or restrictions in social participation.
- Manage research methodology appropriate to proposed protocols, considering the elements that support the conceptual, legal and ethical framework of the different research models and methods.
- Use written and oral communication to disseminate the knowledge generated in their research and professional experience.

GRADUATE ATTITUDES

It is expected that during the program of university training in the Master, the graduate develops a series of attitudes that conform his professional performance and social commitment. The graduate will be:

- Humanist, open to knowledge, tolerant of differences, reflexive, critical and purposeful about the conditions that affect the health and development of individuals with diverse risks of neurological alteration.
- Sensitive to work in an interdisciplinary way recognizing the importance of the contributions of different areas of knowledge, both in the approach and in the solution of problems arising from the timely detection, diagnosis and intervention of developmental disturbances generated by neurological damage.
- Congruent to assume with responsibility and professional ethics the teaching, research and service activities.
- Responsible when carrying out research on human beings, considering their professional duty to take care of the welfare and safety of the people under their responsibility and without exception, they must have the consent of the people involved, based on wide and sufficient information.
- Respectful of the ethical, legal and normative considerations of the institutions where they work, assuming their social commitment to pay attention to the detected problems, respecting the dignity of the people and the integrity of families and their beliefs, values and customs.
- Proactive to disseminate the relevance of practices with a preventive nature to address deficiencies, limitations in activity or restrictions on social participation.

The competencies to develop according to the professional profile of this postgraduate will allow the professional to:

- Acquire up-to-date knowledge of child development in the face of normality and its pathologies.
- Be able to generate and disseminate knowledge regarding the prevention of deficiencies, limitations in activity or restrictions on social participation generated by early damage to the central nervous system.
- Be able to plan, direct, operate and evaluate programs to prevent child development disorders in the medical, educational and social assistance fields.
- Integrate in their professional practice the interdisciplinary, scientific methodology, professional ethics and social commitment in the actions that involve the preventive attention of alterations of child development.

MASTER´S IN

POPULATION AND HEALTH

(FAMILY PLANNING FIELD)

Family planning is a practice of great personal, social and historical relevance. However, training qualified personnel in their granting has been limited. In addition, even though both men and women can use family planning, their granting has concentrated almost exclusively on obstetrician-gynecologists, with the result that most of the services have been oriented to attend the demands of the population in this regard. However, the participation of other specialists, such as family physicians, would make it possible to better respond to the intensity of demand and the diversity of types of users and their needs, including those presented by adolescents and young people regarding contraception and the prevention of sexually transmitted infections.

The Autonomous Metropolitan University (UAM) offers **this postgraduate program**, which provides additional training, particularly to professionals with clinical experience. The program is exclusively for people with a Medical Surgeon degree or equivalents. In addition to clinical training, this postgraduate academic program is geared towards training in health research.

It should be noted that:

- Family planning actions have been the only State policy sustained during the last 40 years in the country; and
- At present, family planning continues to be of great importance, since its availability facilitates the exercise and fulfillment of what is established in the **Constitution** with respect to a freely chosen reproduction in its beginning, leisure and intensity.

GENERAL OBJECTIVE

To train qualified personnel to conduct health research and develop programs to care for the population in the area of family planning. The graduate of this master's program will also be able to carry out clinical activities related to the application of family planning methods.

CURRICULUM

- I Biological and Clinical Basis of Family Planning
- II Demographic Theory and Population Policies
- III Special Population Groups
- IV Family Dynamics
- V Thesis Workshop I
- VI Theses Workshop II

MASTER ´S GRADUATE PROFILE

The graduate of this masters program:

- Will be able to carry out clinical activities related to the granting of family planning methods, from a comprehensive perspective, taking into account the needs and decisions of the service requestors and recognizing the diversity inherent to the different stages of the life course.
- Will be familiar with the advanced aspects of contraceptive methodology, fertility preservation and infertility care.
- Will be able to assess, through clinical research, the impact on the health of users that each family planning method may have.



DOCTORATE IN

BIOLOGICAL AND HEALTH SCIENCES

The **Doctoral Degree in Biological and Health Sciences** is a non-school based tutorial program, which makes it attractive for people with experience in research in the area of biological and health sciences. It is developed in three campuses of the University: Cuajimalpa, Iztapalapa and Xochimilco.

It cultivates students through the solution of issues regarding management and conservation of natural resources and in the health and pharmaceutical sector.

It is part of **CONACYT's PNPC** from 2001 until 2012 at the **consolidated level**.

100% of our full-time teachers belong to the National System of Researchers.

The program has strong research groups with recognition in the areas of experimental biology, medicine, pharmacology, ethology, microbial processes, medical microbiology, toxicology, genetics and molecular biology, reproduction, ecology and management of renewable natural resources.

It has infrastructure and equipment to carry out all lines of research proposed in the laboratories of the professors of the postgraduate academic staff

This program also maintain relations with research groups from other countries through collaboration agreements.

Students and tutors have good academic output.

GENERAL OBJECTIVE

To train high level researchers in Biological and Health Sciences, capable of generating and contributing by themselves to new scientific and technical knowledge in this field, through the execution of original work and with the capacity to handle and apply the most appropriate methodologies for solving research problems in the various areas of biological knowledge, as well as intervening in teaching programs at the higher education and postgraduate levels.

CURRICULUM

- I Seminar I
- I Research Project I
- II Seminar II
- II Research Project II
- III Seminar III
- III Research Project III
- IV Seminar IV
- IV Research Project IV
- V Seminar V
- V Research Project V
- VI Seminar VI
- VI Research Project VI
- VII Research Project VII
- VIII Research Project VIII
- IX Research Project IX
- X Dissertation Composition I
- XI Dissertation Composition II
- XII Dissertation Composition III
- IX Seminar VII
- I al IX Selected Topics I
- I al IX Selected Topics II
- I al IX Selected Topics III

ADMISSION PROFILE

The applicant must be a person that exhibits:

- a) Motivation to be trained in research in **biological and health sciences**, with a critical and purposeful attitude to identify and address research problems.
- b) A research project proposal of quality and scope to constitute a doctoral dissertation.
- c) Clarity in the structure and presentation of their research project proposal, with coherence, novelty and relevance in their approaches.
- d) Knowledge of proposed strategies and research methods.

GRADUATE PROFILE

Graduates will be high level researchers who will have the theoretical and methodological tools to:

- a) Elaborate and develop original projects of basic and applied research, of multidisciplinary character.
- b) Answer research questions and solve problems in the area of biological and health sciences with a broad analytical, critical and ethical sense.
- c) Participate in teaching programs at higher education and postgraduate levels, as well as in activities related to the preservation and dissemination of culture.
- d) Successfully develop themselves in both the public and private sectors in universities, government agencies, research centers, industry or in the free practice of their profession.



DOCTORATE IN

COLLECTIVE HEALTH SCIENCES

The **PhD in Collective Health Sciences** (DCSC) began its academic activities during the third quarter of 2003. To date, it has been operating for 11 years with ten generational cohorts and is recognized in the National Postgraduate Quality Program (**PNPC**) of the National Council of Science and Technology (**Conacyt**) as a **consolidated** postgraduate program.

The curriculum was updated in 2013 and presents an option for the training of researchers who address health problems in human populations, with an emphasis on the social determination of health. It is a **unique program** in the country due to its interdisciplinary orientation in the approach of the collective issues of health, illness and treatment. It has been constituted in a space of generation of new knowledge and training of high level researchers in its two main lines of research: Distribution and determinants of health disease and Health policies and practices.

With fourteen years of operation and ten generations of students, the continuity of this program has allowed the consolidation of research lines, the strengthening of collective work, the interaction with different work groups and the promotion of dissertation projects that contribute to the resolution of social needs.

Basic core teachers have a solid background, experience in project management, postgraduate human resource development, and the development of socially relevant research. **The program** is internationally recognized and represents a quality training option for academics of the institution and other Mexican and foreign higher education institutions.

GENERAL OBJECTIVE

To develop high-level researchers in the field of collective health who generate innovative knowledge through scientific research, for the interdisciplinary academic work in the analysis of health-disease conditions, to formulate and conduct policies and to develop health programs.

SPECIFIC OBJECTIVES

To develop the skills and cognitive domains necessary for the analysis of health-disease conditions and social responses around health, in its collective dimension.

To develop the skills and cognitive domains necessary to generate scientific knowledge and lead academic groups for research and service in the health field.

Develop the skills and cognitive domains necessary to integrate research, teaching and service in the generation of innovative practices in the collective health field.

CURRICULUM

Level One

- I Theoretical Seminar I
- I Research Seminar I
- I Instrumental Workshop I
- II Theoretical Seminar II
- II Research Seminar II
- II or III Instrumental Workshop II
- III Theoretical Seminar III
- III Research Seminar III
- II or III Instrumental Workshop III

Level Two

- IV Research Seminar IV
- V Research Seminar V
- VI Research Seminar VI
- VII Research Seminar VII
- VIII Research Seminar VIII
- IX Research Seminar IX

GRADUATE PROFILE

The graduate profile defines that, at the conclusion of the program, the student will be able to work as a researcher in the field of collective health, to constitute research groups and post-graduate human resources, direct projects of Health System and Service Management and participate and lead academic groups in health and higher education institutions, especially postgraduates. This graduate profile is evaluated from students which - for the most part - are placed in jobs around the academic and management areas mentioned above.

DOCTORATE IN

AGRICULTURAL SCIENCES

This PhD was approved by the Academic College in June 2012, and its first generation began activities in the winter quarter of 2013 (January 14, 2013). Its basic staff is comprised by full-time professors, with 77% of members of the National System of Researchers (**CONACYT**), all with a desirable **PRODEP** profile (SEP) and doctoral degree. They belong mainly to the **Department of Agricultural and Animal Production** (UAM-Xochimilco) and researchers from other departments of the UAM Xochimilco and Iztapalapa campuses also participate.

There is a potential staff of professors who are also in their totality members of the National System of Researchers, have the desirable PROMEP profile and doctoral degree. They belong to different departments of the Biological Sciences Division of the UAM Xochimilco Campus.

Within this framework a program was developed that privileges research, under an interdisciplinary approach and widely discussed and consensual contents, which also contain context analysis and a basic conceptualization.

GENERAL OBJECTIVE

To develop high-level human resources capable of generating research projects and original knowledge, with skills, attitudes and values that allow them to carry out research and development activities with social responsibility and within the framework of sustainability. In addition, they analyze and solve problems of production, and the agricultural and agri-food industries.

CURRICULUM

- I Research Project I
- II Research Project II
- III Research Project III
- IV Research Project IV
- V Research Project V

- VI Research Project VI
- VII Research Project VII
- VIII Research Project VIII
- IX Research Project IX

GRADUATE PROFILE

- A theoretical overview and a current, global and relevant critical perspective on the development of the agricultural and agri-food sector.
- Methodological cabinet, field and laboratory competences to diagnose and approach concrete problems, as well as to pose viable solutions to problems related to the agricultural and agri-food production.
- Innovative capacity to be inserted in the productive, research or teaching fields related to the agricultural and agri-food sector.





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MASTER´S IN

THE REUSE OF BUILT HERITAGE

Generally, the training of architects has focused on the development and materialization of projects of new spaces. However, during their professional practice, the need to tackle projects in which preexisting spaces must be reused is becoming more frequent. There are many factors that affect the field of reuse of buildings and that the architect should be aware of in order to be in a better position to give an adequate response.

During the last century, the transformation of the environment has been characterized by the explosive growth of urban structures and the consequent loss of rural and natural areas. It is clear that the built environment cannot continue to grow without facing the economic, territorial and socio-cultural constraints imposed by its own dynamics, which entails the need to rethink the patterns for their present and future development. Faced with this dilemma, the importance of the reuse of already configured spaces becomes evident, as a viable option to contribute to improving the quality of life of the present and future society.

On the other hand, in the cultural heritage landscape, in particular the built environment, Mexico is the American nation with the highest number of world-wide **UNESCO** awards (27 sites out of 38 included in the official inventory and 15 more in the indicative list), which places the country in the sixth place in this area, preceded by Italy, China, Spain, Germany and France. This gives an indication of the importance that the cultural heritage resource represents for the country.

Keeping this wealth of assets demanded by professionals that are dedicated to safeguard the different manifestations that constitute them; the **Masters Program in Reuse of Built Heritage** is aware of this situation and aims to train professionals (from various disciplines) capable of providing project solutions that through the reuse of real estate and revitalization of urban spaces, are able to help in the management of projects oriented to the preservation of this heritage, equipping students with the theoretical, methodological and technical knowledge and tools that enable them to develop the skills required to support these proposals.

In the current academic offer, **our program is unique** at a national and even Iberoamerican level, since the program in UAM Xochimilco prioritizes conservation through the reuse of buildings and not exclusively their restoration, as it happens in other educational institutions involved in the subject.

Thus this masters is oriented to develop in graduates the necessary competences to collaborate with restoration architects, in the case of intervention in historical monuments, contributing to project solutions demanded for the implementation of new uses in such properties. They will also be able to generate and develop proposals for the conservation and reuse of urban and architectural spaces with dates of construction included in the twentieth century.

GENERAL OBJECTIVE

To develop in professionals a series of skills in research and project generation that conserve, reuse, revitalize and contribute to the value of built heritage.

SPECIFIC OBJECTIVES

- To develop in students the abilities and capabilities to carry out projects of reuse of spaces built on an urban and architectural scale.
- To apply the theoretical-methodological and empirical knowledge of the discipline to increase the student's capabilities in research and project activities.
- Provide the student with the necessary skills to:
- Identify, analyze and assess the heritage value of a built space.
- Analyze and apply adequate techniques and constructive procedures to intervene in the built heritage.
- Characterize and apply intervention techniques and methods in heritage areas.
- Prepare environmental, social and economic feasibility studies to ensure the viability of the reuse project

CURRICULUM

- I Reuse in the contemporary context
- II Interpretation and valuation of urban spaces
- III Projects for the reuse of urban spaces
- IV Heritage property documentation and analysis
- V Architectural reuse projects
- VI Presentation and management of reuse projects

MASTER ´S GRADUATE PROFILE

SKILLS

- Performing comprehensive diagnostics of architectural spaces and their context. Identifying and cataloguing heritage real estate in different locations and historical stages. Planning and executing efficiently adequate procedures for the conservation and reuse of built heritage.
- Using appropriate strategies for the development and management of conservation and re-use of heritage projects.
- Using and applying methods and techniques for proper intervention in real estate assets.
- Critically analyzing the information related to the field of study, as well as the projective exercise emanating from the student's professional practice.
- Being competent in reading and writing texts related to this professional field.

ACQUIRED KNOWLEDGE

- Methods of analysis and valuation of real estate property with heritage value.
- Constructive techniques and procedures for the conservation and reuse of real estate property with heritage value.
- Techniques for the elaboration of opinions to determine the state of conservation of heritage real estate.
- Studies of technical and economic feasibility for the development of conservation projects and reuse of built heritage.
- Techniques of representation of projects to reuse the built heritage.

ATTITUDES

- Being respectful of nature, cultural environments, as well as human beings interacting with both, regardless of their socioeconomic, educational, national, racial, religious beliefs, ages or gender.
- Having a responsible attitude to promote and participate in the safeguarding, conservation and reuse of built heritage.
- Recognizing the limits of one's knowledge and skills, being responsible for constant updating and improving in the competences of the graduate's professional practice.
- Acting with ethics and self-critical judgment in the exercise of activity as a professional in the conservation and reuse of built heritage.

MASTER´S IN

EDITORIAL DESIGN AND PRODUCTION

The **Master in Editorial Design and Production** is a space of professional development around issues regarding editorial design, as well as the book, reading and cultural industries, placing the professionalization and research processes on publishing as a phenomenon.

The purpose is not to further specialize what is already specialized, but to trans-disciplinarily integrate tasks regarding publishing, design, production, communication and administration, not only from their content, form, technology or management, but combining all of these dimensions. In this way, each graduate will be able to do better his / her part of their work, moving more fluidly between the different tasks of their own type of editorial projects and expanding their employment possibilities in new sectors.

Nearly thirty years of threats on technological change allow us to conclude, with a perspective on greater changes that are yet to come, that the process of research, planning, organizing, shaping, materializing, applying and evaluating what is being said; how, why, where, when and to whom it is being said, is increasingly essential in the outcome, not in spite of, but along with, the decision to use print and digital technologies.

Editorial work is not intended to deal with paper or bits. Its essential purpose is to find, gather and organize the content that readers are looking for, to put it in place, in the moment, format and price that readers need.

This is not exactly a master's degree in design or a master's degree in editing, but a comprehensive **approach to publishing as a phenomenon**, a space for dialogue, learning and research where it is possible to share and debate from the logics of publishing, design, administration and communication planning.

Until now there have been few masters and specialty programs in Mexico in publishing, editorial production, editorial design and typographic design, but this is the first program that aims to comprehensively cover project and resource administration, audience inquiries, strategic planning, text organization, design, print or digital production, distribution, promotion and marketing.

The topics covered are as varied as editorial life itself, and are usually studied separately, such as research methods, audiences and markets, information analysis, history, rhetoric, semiotics, content acquisition and selection, administration, costs, taxes, intellectual property, contracts, text composition, proofreading, typography, ortho-typography, layout, reading, readability, pre-press, press, postpress, digital printing and reproduction, distribution, marketing and editorial promotion.

The faculty has alumni and **teachers** from other similar projects, as well as outstanding academics and editorial professionals.

On the side of academic solidity, the modules are taught by UAM faculty members, of whom 100% have postgraduate degrees. Four of our full-time professors have completed their master's degree in publishing and there are also numerous doctors in a wide variety of disciplines related to the publishing phenomenon.

On the side of professional reality, technical seminars are taught by high-level guests who are active in various publishing branches, according to the characteristics of each course: editors, writers, administrators, lawyers, designers, typographers, illustrators, printers, booksellers, digital media developers, and so on.

GENERAL OBJECTIVE

Upon completion of this masters degree, the graduate will be able to plan, integrate and apply the main concepts and techniques of editorial production, in order to respond appropriately to specific social and cultural needs.

SPECIFIC OBJECTIVES

By the end of their studies, graduates of this program will be able to:

- Apply concepts and techniques that allow them to investigate on social and cultural needs that can be answered through editorial processes and products, analyzing and understanding the specificity of each situation.
- Conceptualize responses within different levels of complexity in order to define policies, strategies, programs and projects in accordance with the intentions of each process and each editorial product, according to the analysis of each possible audience and structuring the most appropriate arguments for each situation.
- Analyze, evaluate, choose, care for, correct and develop texts, images, formats, struc-

tures, forms of expression and diffusion technologies that allow the most appropriate organization and representation of the rhetoric that corresponds to each situation.

- Understand the social, political, economic and legal conditions that govern the planning, organization, realization and evaluation of processes and products in the Mexican publishing industry, in order to achieve a more sustainable management from the social, environmental and economic points of view.

CURRICULUM

- I Research and analysis
- II Conceptualization and planning
- III-VI Organization and prefiguration
- III-VI Development and formalization
- III-VI Materialization and production
- III-VI Application and Evaluation

MASTER´S GRADUATE PROFILE

Acquired competences, skills and knowledge:

Graduates will be transdisciplinary editing agents, able to work as editors, design editors, suppliers, coordinators and administrators of processes and editorial services, both traditional and digital, showing research, management and organizational skills, argumentative logic , written and graphic expression, eloquence, persuasiveness and executive capacity to concretize and carry out projects.

Some of the disciplines in which our students specialize are:

- Project management
- Information architecture
- Hiring and supervising digital reproduction services
- Hiring and supervising print reproduction services
- Proofreading
- Costs, budgets, finances and taxes
- Editorial supervision in front of the press
- Editorial decision, acquisition and selection of contents
- Promotion design of editorial products
- Page design, composition and layout

- Distribution and commercialization
- Digital edition
- Formats and technologies
- Computer graphics fundamentals
- Editorial design fundamentals
- Writing Basics
- History of processes and editorial products
- Audience and market research
- Reading and analyzing information
- Ebooks
- Text editing, Word processing and proof-reading
- Morphotyping
- Productive organization of the publishing company
- Orthotypography
- Overview of the various agents of editorial activity
- Intellectual property, rights and contracts
- Reading psycholinguistics and legibility
- Editorial writing
- Rhetoric
- Semiotics
- Sociology of reading
- Theories of reception
- Typography, organization and composition of texts



MASTER´S IN

SCIENCE AND ARTS IN DESIGN

This Master´s degree is an innovative program due to the fact that its educational model is focused on the learning process, reflection and diffusion of knowledge of the different fields in Design in a comprehensive manner, which are integrated in its proposal and reflections.

In this Master's Degree, specialists are developed to contribute to the knowledge of the processes generated by the different fields in design, through the critical analysis of problems that link this discipline with scientific and technological innovations, as well as the humanistic and artistic knowledge that national reality demands.

It is the only Masters program in the entire Mexican Republic that has a research profile that contributes to the epistemological construction of the fields in six Concentration Areas or Areas of Generation and Application of Knowledge (**LGAC's**) around design: Critical Theory and History; Aesthetics, Culture and Semiotics of Design; Environmental Sustainability; Design, Technology and Education; Research and Territorial Management, and Conservation of Cultural Heritage.

The Program has a multidisciplinary and flexible character from two central elements: The first one, instead of being organized by thematic areas that limit knowledge, is focused on problematics that allow the integration of knowledge of diverse areas of design. This last point follows the educational model that defined the **UAM-Xochimilco Campus from its origins**, which is based on problematic understandings and organized by modules rather than by the separation of areas of knowledge. The second element is linked to the **Doctoral degree** as a comprehensive postgraduate course that allows to continue the studies initiated in the Master program, favoring the deepening of the research carried out in it.

The curriculum is organized into six modules that are completed in the two years established for completion.

These have three components for each quarter: the Theoretical Seminar, the Research Tutorial Seminar, and the Research Project Workshop. The first three modules form a common core of three quarters that must be completed by all students of **the Master** and the following three modules (or quarters) are developed within the Concentration Areas (LGACs), with specific contents for each one of them. These areas give students the possibility of having a specialization that leads them to deepen the subjects they chose for the development of their research.

It should be noted that according to this program, the modality for obtaining the degree is to cover 100% of the expected credits as well as to present and approve their Master's Thesis.

GENERAL OBJECTIVE:

To train human resources at Master's level through theoretical qualification and transdisciplinary practice in scientific, technological and humanistic research and development, to carry out activities of professional practice, research, teaching, service and preservation of material culture in the different fields of Sciences and Arts for Design.

SPECIFIC OBJECTIVES

- To develop scientific, technological and humanist researchers for the knowledge and the solution of development issues corresponding to the field of Sciences and Arts for Design.
- To deepen the student formation process, in order to carry out professional practices specialized in the different fields of design.
- To enable human resources for teaching in Bachelor's and Master's, as far as theoretical and practical qualification in research and development in the different fields of design.
- To train qualified personnel to participate in processes of reuse, reevaluation, preservation and dissemination of environmental, urban, architectural, object and graphic heritage.

CURRICULUM

First Level: Common Core

- I Socio-Cultural Processes and Design Practices
- II Scientific and Technological Innovation and Design Practices
- III Natural Environment and Design Practices

Concentration Areas

- 1st Area: Critical Theory and History
- 2nd Area: Aesthetics, Culture and Semiotics of Design
- 3rd Area: Environmental Sustainability
- 4th Area: Design, Technology and Education
- 5th area: Research and Territorial Management
- 6th area: Cultural Heritage Conservation

Second Level

1st Area: Critical Theory and History

- IV Research Project I
- V Research Project II
- VI Research Project III

2nd Area: Aesthetics, Culture and Semiotics of Design

- IV Research Project I
- V Research Project II
- VI Research Project III

3rd Area: Environmental Sustainability

- IV Research Project I
- V Research Project II
- VI Research Project III

4th Area: Design, Technology and Education

- IV Research Project I
- V Research Project II
- VI Research Project III

5th Area: Research and Territorial Management

- IV Research Project I
- V Research Project II
- VI Research Project III

6th Area: Cultural Heritage Conservation

- IV Research Project I
- V Research Project II
- VI Research Project III

MASTER´S GRADUATE PROFILE

The student's graduation profile will be that of a qualified researcher to analyze, develop and solve socially relevant problems of reality, of average complexity, in which the different practices of design may intervene. It will be able to produce scientific, technological, humanistic and

aesthetic knowledge appropriate to these problems and propose solutions in correspondence to the current degree of development of their specialty (area of concentration); they will be qualified to participate as a member of working groups in the accomplishment of research tasks, teaching and management of processes of medium complexity in the fields of Design.



DOCTORATE IN

SCIENCE AND ARTS FOR DESIGN

This PhD is an innovative program due to the fact that its educational model is focused on the learning process, reflection and diffusion of knowledge of the different fields in Design in a comprehensive manner, which are integrated in its proposal and reflections. In this doctorate program, specialists are developed to contribute to the knowledge of the processes generated by the different fields in design, through the critical analysis of problems that link this discipline with scientific and technological innovations, as well as the humanistic and artistic knowledge that national reality demands. It is the only doctorate program in the entire Mexican Republic that has a research profile that contributes to the epistemological construction of the fields in six Areas of concentration or Leagues of Generation and Application of Knowledge (LGAC's) around design: Critical Theory and History; Aesthetics, Culture and Semiotics of Design; Environmental Sustainability; Design, Technology and Education; Research and Territorial Management, and Conservation of Cultural Heritage.

This Doctorate program has a labor insertion level of 89% in Higher Education Institutions in both the Federal District and the country, thus increasing the impact that the program has in reproducing the knowledge in the Sciences and Arts for Design acquired during the program in other institutions in the country.

GENERAL OBJECTIVE

To train human resources at the Doctoral level through theoretical qualification and transdisciplinary practice in scientific, technological and humanistic research and development, to carry out activities of professional practice, research, teaching, service and preservation of material culture in the different fields of Sciences and Arts for Design.

CURRICULUM

There are two levels during the teaching-learning process, Common Core and Concentration

Areas. The first one will be shared by all students in the program and, in the second level, they will be separated according to their selected Concentration Area

CONCENTRATION AREAS

Concentration areas are structured from real problems constituted in each field of knowledge, with their own theoretical-methodological development, and not from the traditional fragmentation of professional practices.

In order to respond to the current social needs and to the development of knowledge, 6 main issues were selected as the basis of the concentration areas and are relevant and socially important.

- 1st Area: Critical Theory and History
- 2nd Area: Aesthetics, Culture and Semiotics of Design
- 3rd Area: Environmental Sustainability
- 4th Area: Design, Technology and Education
- 5th area: Research and Territorial Management
- 6th area: Cultural Heritage Conservation

- I Designs, Time and Social Dynamics
- II Designs, Production and Appropriation of Objects and Structures
- III Designs, Spaces and Environment Preservation

From quarters IV to VIII, the module's name remains the same, but students are distributed in the concentration area that corresponds to them.

- IV Research and Development I
- V Research and Development II
- VI Research and Development III
- VII Research and Development IV
- VIII Research and Development V

GRADUATE PROFILE

The graduate must be a qualified researcher at the highest academic level taught by the University, in order to analyze, develop and solve highly complex, socially pertinent and relevant problems of reality in which the different practices of design intervene. They will be able to produce original scientific, technological, humanistic and aesthetic knowledge and propose integral and alternative solutions to complex problems of design.

Their fundamental abilities will be:

- Transdisciplinary research on the actual processes of design and their social and cultural determinations.
- The development of new processes, forms of organization, structures and production in which the different practices of design occupy a prominent position.
- Direct their post-doctoral professional practice towards scientific research and university teaching and/or technological development in the different fields of design and its articulations and intersections with issues of other areas of knowledge and other social, economic, political, territorial and environmental problems.
- The degree of mastery in theoretical, methodological, technical or aesthetic training, creativity and propositional ability in these fields, depending on the field of design and the problem to be addressed by their specialty (area of concentration). They will be able to organize, direct and carry out all the stages of the knowledge process required by their activity.

Graduates from this program will be qualified to participate in the organization and management of multidisciplinary work groups in research, development, teaching and management of complex processes involving design in the different specialties addressed, in the production, preservation and dissemination of knowledge acquired and the collectively obtained material heritage.

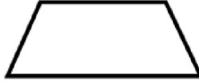
CONACYT ACCREDITATION

All of our postgraduate degrees are recognized by the National Standards of Postgraduate Quality (PNPC) of the National Council of Science and Technology (CONACYT).

INFORMATION

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ASENTADA EN LA TRADICIÓN



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