

UDLAP[®]

UNIVERSIDAD DE LAS AMÉRICAS PUEBLA



www.udlap.mx

DATA SCIENCE

EDEC
SCHOOL OF
SCIENCES



STUDY DATA SCIENCE AT UDLAP

As a graduate from the Bachelor in Data Science you will be able to analyze, interpret, design, and implement solutions to problems that involve large quantities of information, using statistical analysis, mathematical models, machine learning, and big data handling processes and methodologies. Additionally, you will be able to devise ways to develop efficient and innovative strategies to meet society's needs, in a national and international context, with technical, ethical, and social commitment.

Once you have finished your study program, you will have a bachelor's degree in addition to a licenciatura degree. Therefore, your studies will be recognized worldwide.



JOB MARKET

- *Companies and organizations (public and private) that handle and analyze large quantities of data.*
- *Consulting companies.*
- *Academics or education.*
- *Pharmaceuticals and bio-technology.*
- *Companies in the energy sector.*
- *Aerospace industry.*
- *IT and Security.*
- *Banking and Finance.*



UDLAP OUTREACH

Prestigious national and international companies have a relationship with the university. As an UDLAP student you have the best opportunities to access and succeed in the working world, either through professional practices or research projects that will help you enter the job market once you graduate.



BE PART OF THE UDLAP COMMUNITY



Your academic formation can be complemented through extracurricular workshops offered at the university, as well as by participating in student organizations and cultural and sports activities that will contribute to your growth as a student and future practicing specialist.

If you live in one of the five residential colleges, you will enjoy the university environment thoroughly and be able to socialize with students of other bachelors and other

cultures, thus complementing your academic formation with significant experiences that will have a great impact in your personal and professional relationships. Living at UDLAP provides recreational areas and all the services you need, in addition to the amenities found in an apartment.

The university also has dining services, *snack* areas, and ATMs, among other facilities.

AN UDLAP STUDENT HAS

- Conviction to work for the *greater good* and to achieve success.
- Ability to reach goals through continuous learning.
- Ability to face the challenges of an increasingly competitive world.
- Interest in computer equipment and applications.
- Ability, initiative, and interest in learning independently by solving problems



Thanks to more than 200 agreements with prestigious international universities, you will be able to make academic exchanges or complete a double degree program.

UDLAP ACADEMIC EXCELLENCE

The prestige of our faculty is backed by their extensive teaching experience. 99% of our full-time professors have a graduate degree and one in three is a member of the National System for Researchers (Sistema Nacional de Investigadores - SNI). Given the faculty's experience and their academic quality, they will be able to guide you in finding new ways to express yourself and be critical, innovative, and creative.

UDLAP is accredited at a national and international level by the Mexican Federation of Private Institutions of Higher Education (Federación de Instituciones Mexicanas

Particulares de Educación Superior - FIMPES) and, since 1959, by the *Southern Association of Colleges and Schools Commission on Colleges* (SACSCOC). The accreditation agency *Quacquarelli Symonds* (QS) awarded 5 global stars to our university, making it the first one-campus university in Latin America to achieve this recognition. UDLAP earned 5 stars in the teaching, alumni employability, internationalization, inclusiveness, and art and culture categories; this means that we offer the highest standards of academic quality and educational services when compared to the best universities in Mexico and the world.



CURRICULUM DATA SCIENCE

	Course	Credits
1 Term	University Math	6
	Algorithms and Programming	6
	Information Technologies in the Construction of Knowledge.....	6
	Foreign Language I	6
	General Studies Elective in Arts	6
	General Studies Elective in Math.....	6
2 Term	Superior Algebra.....	6
	Analytic Geometry	6
	Calculus I	6
	Object-Oriented Programming	6
	Foreign Language II	6
	Academic Reasoning	6
General Studies Elective In Behavioral Sciences	6	
3 Term	Calculus II.....	6
	Matrix Theory	6
	Data Structures	6
	Discrete Analysis	6
	Stochastic Models I	6
	Academic Writing	6
Foreign Language III	6	
4 Term	Ordinary Differential Equations	6
	Mathematical Analysis I.....	6
	Databases	6
	Discrete Math.....	6
	Stochastic Models II.....	6
	General Studies Elective in Humanities	6
General Studies Elective in Natural Science	6	

	Course	Credits
5 Term	Mathematical Analysis II	6
	Datamining	6
	Numerical Analysis	6
	Stochastic Models III	6
	Inference Methods I	6
	Professional Practices 1	6
6 Term	Optimization Theory and Techniques	6
	Topological Data Analysis.....	6
	Pattern Recognition	6
	Econometrics I	6
	Inference Methods II	6
	Artificial Intelligence	6
7 Term	Select Topics 1	6
	Machine Learning	6
	Neural Networks	6
	Professional Practices 2	6
	Econometrics II	6
	Concurrent Computing	6
8 Term	Select Topics 2	6
	Select Topics 3	6
	Advanced Optimization	6
	Cloud Computing and Big Data	6
	Data Visualization.....	6

YOUR TIME IS NOW. JOIN US

ADMISSION PROCESS

- Take the admission exam.
- Students from high schools that have an agreement with UDLAP do not have to take the admission exam. Consult the list of participating high schools at: **www.udlap.mx/preparatoriasdeconvenio**
- Deliver the basic documents for admission: **www.udlap.mx/solicitudes**
- Information and deadlines for scholarships can be found at: **www.udlap.mx/becas**
- Current fees and tuition: **www.udlap.mx/finanzas**

We Want to Hear From You

Student Recruitment:

Tel.: 222 229 21 12

informes.nuevoingreso@udlap.mx

☎ (+52) 222 577 38 29

Scholarships:

Tel.: 222 229 27 02

informacion.beca@udlap.mx

Switchboard:

Tel.: 222 229 20 00

Ext. 4792 • 4799 • 4260 • 2189



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THE **UDLAP** ACADEMIC
QUALITY AND PRESTIGE
ARE ENDORSED BY **QS**,
SACSCOC AND **FIMPES**



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Universidad de las Américas Puebla

Ex hacienda Santa Catarina Mártir • C.P. 72810
San Andrés Cholula, Puebla, México