

# UDLAP<sup>®</sup>

UNIVERSIDAD DE LAS AMÉRICAS PUEBLA



ENVIRONMENTAL ENGINEERING

[www.udlap.mx](http://www.udlap.mx)

EDEI   
SCHOOL OF  
ENGINEERING

# STUDY ENVIRONMENTAL ENGINEERING AT UDLAP

As a graduate from the Bachelor in Environmental Engineering you will be able to define, operate, and improve environmental protection processes, applying theories and principles of balance of mass and energy, fluid flow unit operations, transfer of heat and energy, biochemical reactors, and process engineering for the elimination of pollutants. This will optimize industry operations and processes, will help maintain pollution prevention systems, and guarantee the safety of personnel and communities in public and private organizations.

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

- *Environmental consulting companies.*
- *Environmental equipment design and construction companies.*
- *Inorganic and organic chemical industry, oil industry, and petrochemical industry.*
- *Public policy environmental organizations.*
- *Safety and environmental protection industry.*



## 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.
- Possesses creativity that will be useful in new functional, environmental, and technological models.
- Has a positive tendency to design solutions for environmental problems.

## **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

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

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

## ENVIRONMENTAL ENGINEERING

	Course	Credits
1 <sup>st</sup> Term	Material Balance .....	6
	General Chemistry Lab .....	3
	Foreign Language I .....	6
	University Math .....	6
	General Studies Elective In Math .....	6
	General Chemistry .....	6
	Information Technologies In The Construction Of Knowledge .....	6
2 <sup>nd</sup> Term	Linear Algebra .....	6
	Academic Reasoning .....	6
	Calculus I .....	6
	General Physics I .....	6
	General Physics Lab I .....	3
	Organic Chemistry Lab I .....	3
	Foreign Language II .....	6
Organic Chemistry I .....	6	
3 <sup>rd</sup> Term	Biochemistry I .....	6
	Calculus II .....	6
	Academic Writing .....	6
	Analytical Chemistry Lab .....	3
	Chemical Thermodynamics Lab .....	3
	Foreign Language III .....	6
	Analytical Chemistry .....	6
Chemical Thermodynamics .....	6	
4 <sup>th</sup> Term	Ordinary Differential Equations .....	6
	Microbiology Lab .....	3
	Thermal Machines .....	6
	Microbiology .....	6
	General Studies Elective In Natural Sciences .....	6
	General Studies Elective In Humanities .....	6
	Probability And Statistics .....	6

	Course	Credits
5 <sup>th</sup> Term	Sustainable Engineering .....	6
	Transportation Processes Lab I .....	2
	General Studies Elective In Arts .....	6
	General Studies Elective In Behavioral Sciences .....	6
	Professional Practices 1 .....	6
	Transportation Processes I .....	6
Safety In Chemical Processes .....	6	
6 <sup>th</sup> Term	Environmental Biotechnology .....	6
	Unit Operations Of Fluid And Heat Flows Lab .....	2
	Unit Operations Of Heat Flows .....	6
	Unit Operations Of Fluid Flows .....	6
	Transportation Processes II .....	6
Select Topics 1 .....	6	
7 <sup>th</sup> Term	Environmental Analysis .....	6
	Control Of Atmospheric Emissions .....	6
	Unit Operations Of Mass Transfer Lab .....	2
	Unit Operations Of Mass Transfer .....	6
	Professional Practices 2 .....	6
	Select Topics 2 .....	6
Treatment Of Sewage Water .....	6	
8 <sup>th</sup> Term	Design Of Environmental Systems.....	6
	Conventional And Non-Conventional Energy.....	6
	Environmental Impact .....	6
	Environmental Protection .....	6
	Select Topics 3 .....	6
	Waste Treatment .....	6

TOTAL CREDITS 306



## 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 four residential colleges, you will enjoy the university environment thoroughly and be able to socialize with students of

other licenciaturas 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.




# YOUR TIME IS NOW. JOIN US

## ADMISSION PROCESS

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

## WE WANT TO HEAR FROM YOU

### Students Recruitment:

Tel.: +52 (222) 229 21 12  
[informes.nuevoingreso@udlap.mx](mailto:informes.nuevoingreso@udlap.mx)  
 (+521) 222 577 38 29

### Scholarships:

Tel.: +52 (222) 229 27 02  
[informacion.beca@udlap.mx](mailto:informacion.beca@udlap.mx)

### International Recruitment:

Tel.: +52 (222) 229 20 00 Ext. 4758 • 3165  
Toll Free Number from USA: 1 844 873 2970  
[abroad@udlap.mx](mailto:abroad@udlap.mx)

### Switchboard:

Tel.: +52 (222) 229 20 00  
Ext. 5222 • 4799 • 4260 • 2189

**STUDY IN  
MEXICO.  
STUDY AT  
UDLAP®**

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



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