

UDLAP[®]

UNIVERSIDAD DE LAS AMÉRICAS PUEBLA



www.udlap.mx

CHEMICAL ENGINEERING

EDEI

SCHOOL OF
ENGINEERING



STUDY CHEMICAL ENGINEERING AT UDLAP

As a graduate from the Bachelor in Chemical Engineering you will be able to design, operate, and improve processes to transform materials into chemical products, solving problems in industrial operations, and creating top quality products. You will use theories and methodologies to balance mass and energy, unit operations of fluid flows and transfer of mass and energy, chemical reactors, and process engineering. Thus, you will synthesize organic and inorganic chemical products, petroleum pharmaceuticals, and petrochemicals needed by industry and society.

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

- *Consulting companies for industrial modernization.*
- *R&D of new chemical products and processes.*
- *Industrial equipment design and construction companies.*
- *Research and graduate studies centers.*
- *Companies that sell industrial products and equipment.*

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.
- Interested in experimentation and analysis.
- Knows concepts of chemistry, physics, math, and science in general.



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 CHEMICAL ENGINEERING

	Course	Credits
Term 1	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
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Term 2	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
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Term 3	Calculus II	6
	Academic Writing	6
	Analytical Chemistry Lab	3
	Chemical Thermodynamics Lab	3
	Foreign Language III	6
	Analytical Chemistry	6
	Chemical Thermodynamics	6
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Term 4	Ordinary Differential Equations	6
	Thermal Machines	6
	General Studies Elective In Behavioral Sciences *	6
	General Studies Elective In Natural Sciences *	6
	General Studies Elective In Humanities *	6
	Probability And Statistics	6

	Course	Credits
Term 5	Free Energy Balances	6
	Phase Balance Lab	2
	Transportation Processes Lab I	2
	General Studies Elective In Arts *	6
	Professional Practices 1	6
	Property Prediction	6
	Transportation Processes I	6
Safety In Chemical Processes	6	
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Term 6	Kinetics And Chemical Reactors	6
	Process Engineering I	6
	Kinetics And Chemical Reactors Lab	2
	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
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Term 7	Catalysis And Heterogeneous Reactors	6
	Process Engineering II	6
	Unit Operations Of Mass Transfer Lab	2
	Unit Operations Of Mass Transfer	6
	Professional Practices 2	6
	Select Topics 2	6
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Term 8	Dynamics And Process Control	6
	Design Of Chemical Plants	6
	Process Instrumentation	6
	Instrumentation Lab	2
	Advanced Unit Operations Of Mass Transfer Lab	6
	Advanced Unit Operations Of Mass Transfer	6
	Select Topics 3	3

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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