

**UDLAP**<sup>®</sup>

UNIVERSIDAD DE LAS AMÉRICAS PUEBLA



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

**ENERGY ENGINEERING**

**EDEI**

SCHOOL OF  
ENGINEERING



# STUDY ENERGY ENGINEERING AT UDLAP

As a graduate from the Bachelor in Energy Engineering you will be able to evaluate, adapt, and design the processes that create, distribute, and manage energy. Your work will be carried out within a legal framework, applying efficient and sustainable technologies that use primary sources of energy, both fossil and renewable, and secondary sources such as electricity and fuel, supplying solutions for the industry's and society's energy needs.

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

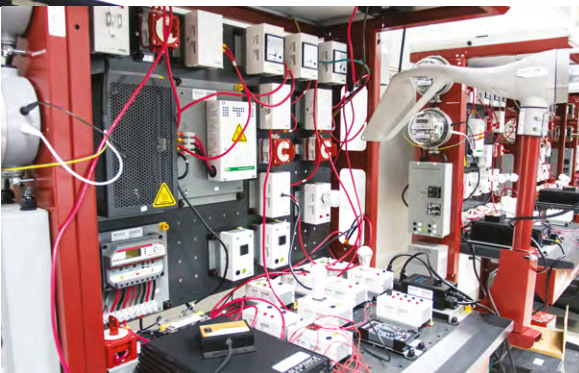
- *Electric industry.*
- *Hydrocarbon industry.*
- *Transformation industry.*
- *Metalworking industry.*
- *Service industry.*





## 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.
- Willing to work for the greater good and to be successful.
- Determined to achieve goals through learning.



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 ENERGY ENGINEERING

	Course	Credits
Term 1	Algorithms And Programming .....	6
	Material Balance .....	6
	General Chemistry Lab .....	3
	Foreign Language I .....	6
	University Math .....	6
	General Chemistry .....	6
	Information Technologies In The Construction Of Knowledge .....	6
	Term 2	Linear Algebra .....
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
Term 3	Calculus II .....	6
	Academic Writing .....	6
	Chemical Thermodynamics Lab .....	3
	Foreign Language III .....	6
	General Studies Elective In Math * .....	6
	Chemical Thermodynamics .....	6
Term 4	Electronic Circuits .....	6
	Ordinary Differential Equations .....	6
	Electronic Circuits Lab .....	2
	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	Advanced Electrical Circuits .....	6
	Basic Electronics .....	6
	Advanced Electrical Circuits Lab .....	2
	Transportation Processes Lab I .....	2
	General Studies Elective In Arts * .....	6
	Professional Practices 1 .....	6
	Transportation Processes I .....	6
	Safety In Processes And Environmental Protection.....	6
Term 6	Geothermal, Hydraulic And Nuclear Energy .....	6
	Solar And Wind Energy .....	6
	Instrumentation And Control .....	6
	Instrumentation And Control Lab .....	2
	Unit Operations Of Fluid And Heat Flows Lab .....	2
	Unit Operations Of Fluid And Heat Flows .....	6
	Transportation Processes II .....	6
Term 7	Petrochemical Process Engineering .....	6
	Petrochemical Process Engineering Lab .....	2
	Unit Operations Of Mass Transfer Lab .....	2
	Electrical Machines .....	6
	Unit Operations Of Mass Transfer .....	6
	Professional Practices 2 .....	6
	Petroleum Chemistry And Catalytic Reactors .....	6
	Select Topics 1 .....	6
Term 8	Bioenergy .....	6
	Design Of Energy Projects .....	6
	Refining And Processing Fossil Fuels .....	6
	Select Topics 2 .....	6
	Select Topics 3 .....	6

TOTAL CREDITS 302

# 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](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

### Student Recruitment:

Tel.: 222 229 21 12

[informes.nuevoingreso@udlap.mx](mailto:informes.nuevoingreso@udlap.mx)

☎ (+52) 222 577 38 29

### Scholarships:

Tel.: 222 229 27 02

[informacion.beca@udlap.mx](mailto: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**



# UDLAP<sup>®</sup>

**Universidad de las Américas Puebla**

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