curricular map

PREPARATORY COURSES	FIRST	SECOND	THIRD	FOURTH	FIFTH	SIXTH	SEVENTH	EIGHTH	NINTH
Logic, Arithmetic, and Algebra (6)	Social Thinking of the Church (6)			Physics I (6)	Interpreting Statistical Information (6)	Academic Writing (6)	Global Competencies (6)		
Basic Written Communication Skills (6)	Differential Calculus (6)	Integral Calculus (6)	Differential Equations (6)	Mechanical Physics Laboratory (6)	Experimental Science Laboratory (6)	Probability and Statistics (6)	Compared International Contexs (6)	General Studies Elective (6)	
	Computational Mathematics (6)	Computer Organization and Architecture (6)	Basic Electronics (6)	Hardware Laboratory (3)		Operating Systems (6)	Leadership in Organizations (6)	Software Quality (6)	General Studies Elective (6)
	Fundamentals of Software Engineering (6)			Introduction to Databases (6)	Databases (6)	Management for Engineers (6)	Technology Management (6)	Developing Business Opportunities (6)	General Studies Elective (6)
	Introduction to Information Technologies (6)	Introduction to Networks (6)	Network Design (6)	Data Structures (6)	Analysis and Design of Algorithms (6)		Automata Theory (6)	Business Consulting (6)	
	Programming Fundamentals (6)	Programming Principles (6)	Intermediate Programming (6)		Advanced Programming (6)		Integration of Computer Applications (6)	Directed Internship in ITC (PPD) (6)	ITC Final Evaluation Program (PEF) (12)
		Object-Oriented Modeling (6)	Internet Technologies (6)	Software Architecture (6)	Software Engineering Integrative Project (6)	WEB Application Development (6)			Computer Technology Security (6)
	Induction to University Life Seminar	Interface Design (6)	User-Centered Design (6)	Computer Technology Project Management (6)	Professional Elective I Usability (6)	Professional Elective II Database Applications (6)	Mobile Aplication Development (6)	Professional Elective III Embedded Application Development (6)	
	Cocurricular 1	Cocurricular 2	Cocurricular 3	Cocurricular 4	Start Social Service				

Credits / Number of courses

FIRST	SECOND	THIRD	FOURTH	FIFTH	SIXTH	SEVENTH	EIGHTH	NINTH
36 / 6	36 / 6	36 / 6	39 / 7	39 / 7	36 / 6	42 / 7	36 / 6	30 / 4

330 / 55

UDEM

Personal Education Plan—

The Personal Education Plan allows you to design a personal, unique plan for your degree program and holistic education. You will have an advisor who will guide you through three phases: decision, consolidation, and success. Through these phases, you will be able to make decisions on courses, formative activities, opportunities to go on exchange, and everything that UDEM offers you to reach your full potential.

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udem.edu.mx/planpersonal

Elective general studies courses—

As part of your academic plan, you are entitled to choose 3 elective competency courses throughout your degree program.
The following are the elective courses for the Bachelor's Degree program in Computer Technology Engineering.

- Selected Studies in Art
- Current Studies in Art
- General Art Studies
- Ideology in Images
- Art After the Cold War
- History of Photography
- The Classical World
- Fundamentals of Administration
- Human Capital Management
- Marketing
- Tourism
- Selected Studies in Natural Sciences
- Current Studies in Natural Sciences
- General Studies in Natural Sciences
- Human Anatomy
- Nutrition

- Preventive Stomatology I
- Biochemistry
- Research
- Chemistry
- Effective Communication
- Oral Communication
- Financial Information in Business
- Financial Analysis
- General Sociology
- Selected Studies in Social Sciences
- Current Studies in Social Sciences
- General Studies in Social Sciences
- Sociology of Culture
- Introduction to Anthropology
- Modern World History
- Introduction to Political Science
- Political Geography
- Theory of the State and Public Administration
- Introduction to International Relations
- Mexican Political System

- Society and Culture in Europe
- Asian Society and Culture
- Introduction to Law
- Industrial and Intellectual Property Legislation
- Fundamental Human Rights and Citizenship
- History of Juridical Institutions
- General Criminal Law
- Person and Family
- Constitutional Law
- Economy and Business in the Asian Market
- Economy and Business in the European Market
- Selected Studies in Exact Sciences
- Current Studies in Exact Sciences
- General Studies in Exact Sciences
- Quantitative Tools for Business
- Mathematics for Architecture and Design
- Statistics

- Astronomy
- Mexican Studies
- Current Studies in the Humanities
- General Studies in the Humanities
- Selected Studies in the Humanities
- Sources of Western Literature
- Study of Religions
- Ethics of Organizations
- Sociology of Organizations
- Basic English
- Intermediate English
- Advanced English
- Introduction to Spanish
- Basic Spanish
- Pre-Intermediate Spanish
- Intermediate Spanish
- Upper-Intermediate Spanish
- Advanced Spanish
- Upper-Advanced Spanish
- Life and Culture in Mexico
- Introductory French
- Elementary French
- Pre-Intermediate French
- Intermediate French
- Upper-Intermediate French

- French Reading and Composition
- Introductory German
- Elementary German
- Upper-Elementary German
- Pre-Intermediate German
- Intermediate German
- Upper-intermediate German
- Introductory Mandarin Chinese
- Elementary Mandarin Chinese
- High Elementary Mandarin Chinese
- Low Intermediate Mandarin Chinese
- Professional Writing in English
- Preparing and Delivering Presentations in English
- Effective Communication in Business English
- TOEFL Success Preparation
- Sustainable Development
- Studies in Renewable Energy
- Studies in Energy Production and Distribution
- Studies in Sustainable Energy Use
- Selected Behavioral Studies

- Current Behavioral Studies
- General Behavioral Studies
- General Psychology
- Psychology of the Child and Adolescent
- Psychology of Learning
- Social Psychology
- Development of Interpersonal Skills
- Technological Tools for Productivity
- Trends in Science and Technology

Elective professional studies courses—

As part of your academic plan, you are entitled to choose three professional specialty courses:

- Database Applications
- Usability
- Embedded Application Development

- Selected Studies in Computer Technologies
- Current Studies in Computer Technologies
- General Studies in Computer Technologies

Contact information—

Bachelor's Degree in Computer Technology and Engineering
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