

BASIC CYCLE			
1st year Chemistry I Representation Systems Mathematics I Linear Algebra General Knowledge I Chemistry II General IT Mathematics II Physics I Learning Techniques	2nd year Introduction to Chemical Engineering Organic Chemistry I Chemistry work Lab Statics and Strength of Materials Mathematics III Physics II Organic Chemistry Probability and Statistics Physics III Mathematics IV		3rd year Biochemistry and Microbiology Analytical Chemistry Physical-Chemistry Electrotechnics Transport Phenomena Thermodynamics Class Project I Numerical Methods General Mechanics Spanish
*English level required			
PROFESSIONAL CYCLE		Electives	
4th year Unit operations I Unit operations II Reactor and reactions Engineering Physical Metallurgy I Law for Engineers English I Electives Unit Operations III Petroleum economics and industrialization Process control Chemical industries Polymeric Materials Economics for Engineers	5th year Industrial Organization Conceptual process design Plant project Class project II General Knowledge II English II Introduction to Environmental Engineering Work practice General Knowledge III	Entrepreneurship; Project Management; Marketing; Operational Research; Applied Statistics; Quality Management; Advanced Chemical Reactors; Polymerization Reactors; Reaction and Reactors; Engineering II; Introduction to Steel Manufacturing; Food Technology; Occupational and Environmental Security; Sewage Treatment; Materials Capstone Project; Research Project II ; Research Project III ; Structural Integrity; Rock Petrophysics and reservoir fluids properties; Reservoir Engineering; Surface Facility Projects; Natural Gas Derivatives; Pressure-transient analysis; Business Development; Gas and Oil well completion and repair; Oil Production; International Economics; Business Finance; Macroeconomics; Human Resources Management.	
		This list of elective courses is merely illustrative; the department´s director may modify it for the purpose of its update and its continuous improvement.	