

## REMEMBER THAT THROUGHOUT YOUR CAREER YOU MUST COMPLETE AT LEAST TWO SUBJECTS OF THE PROFESSIONAL BLOCK FULLY ONLINEANDAL LEAST TWO IN ENGLISH LANGUAGE. WE RECOMMEND YOU TO REGISTER AT LEAST ONE COURSE OF HUMANITIES IN EACH SEMESTER SO THAT YOU CAN FINISH YOUR CAREER IN THE TIME YOU HAVE PLANNED. PLAN THE PROGRESS OF YOUR STUDIES

his curricular map shows an appropriate ordering of how you can study your subjects. In its preparation, the academic staff considered the complexity, difficulty and progression of the contents of the subjects.

CURRICULUM MAP OF THE DEGREE IN MECHATRONIC ENGINEERING PLAN 2016 SEMESTER SEMESTER SEMESTER SEMESTER SEMESTER SEMESTER ACADEMIC AREA Credits CRS: MAT 2309 CRS: IMEC 3306 CRS: IELC 3302 CRS: MAT 2305 Mechatronic Practicum I: Design Diferential calculus Multivariate Calculus Integral Transforms Fluid mechanics Hydropneumatic Systems Analog Electronics echnological Innovation Integral calculus Methodology Credits: 7 Hrs: 4.5 Credits: 7 Hrs: 4.5 Credits: 9 Hrs: 6 Credits: 6 Hrs: 4.5 Credits: 6 Hrs: 4.5 Credits: 6 Hrs: 4.5 Credits: 9 Hrs: 4.5 Credits: 6 Hrs: 3 Req: IELC3303, IMEC3301, Req: IMEC4302, IELC4305, Rea: Non Reg: MAT1304 Req: MAT1305 Reg: MAT2306 Req: FIS 2301 Reg: IMEC3306 Req: Non MAT2309 Sim: Non IMEC3304 Sim: Non Outcomes: 5 Outcomes: Outcomes: 5 Outcomes: utcomes: 3, 9 CRS: SIS 1301 CRS: MAT 2306 CRS: FIS 2302 CRS: IMEC 3301 CRS: IELC 3301 RS: IELC 4303 Differential equations Probability and statistics MEMS systems Digital Circuits I Algorithms and Programming Electricity and magnetism Measurement and Instrumentation Automation Credits: 6 Hrs: 4.5 Credits: 7 Hrs: 4.5 Credits: 7 Hrs: 4.5 Credits: 7 Hrs: 4.5 Credits: 6 Hrs: 4.5 Credits: 6 Hrs: 3 Credits: 6 Hrs: 4.5 Credits: 9 Hrs: 6 Credits: 6 Hrs: 4.5 Req: IELC3301, IELC4305 Req: MAT1305 Req: IELC3303 Req: Non Req: Non Reg: MAT2305 Reg: FIS 1302 Reg: IMEC 3303 Reg: IMEC3307 . IEI C3301 IELC3302 Sim: Non Outcomes: 5.7.9 Outcomes: F Outcomes: 5. 0 Outcomes: 6 Outcomes: 4 F Outcomes: 3, 7 Outcomes: 5 CRS: QUI 1302 CRS: IMEC 3304 Design of Mechanica Control Theory Chemistry Statics Dynamics Thermodynamics Semiconductor Fundamentals Digital Control ndustrial robotics Components Credits: 6 Hrs: 4.5 Credits: 7 Hrs: 4.5 Credits: 9 Hrs: 6 Credits: 9 Hrs: 6 Credits: 8 Hrs: 6 Credits: 6 Hrs: 4.5 Credits: 9 Hrs: 6 Credits: 6 Hrs: 4.5 Credits: 6 Hrs: 4.5 Req: Non Req: FIS2303 , MAT1305 Req: IMEC 2303 Req: FIS 1302 Req: IMEC3303 eq: IMEC4302, IELC4301 Sim: Non im: Non BLOCK Outcomes: Outcomes: Outcomes: 2, 9 Outcomes: 5 Outcomes: 7, 9 CRS: IMEC 1301 CRS: MAT 1303 CRS: IMEC 2303 CRS: IMEC 2302 CRS: FIS 2305 CRS: SOC2305 CRS: IELC 4305 CRS: IELC 4302 Design of Mechanical Social responsibility and Computer design Linear algebra Materials mechanics Electrical Circuits II Electrical Machines Embedded Systems sustainabilitv Credits: 6 Hrs: 3 Components Credits: 6 Hrs: 4.5 Credits: 7 Hrs: 4.5 Credits: 6 Hrs: 4.5 Credits: 6 Hrs: 4.5 Credits: 6 Hrs: 4.5 Credits: 6 Hrs: 4.5 Credits: 9 Hrs: 6 Req: Non Rea: Non Reg: FIS 2303 Rea: FIS 2301 Reg: FIS 1302 Rea: HUM2301 Reg: FIS 2305 . IEI C3303 Reg: IEI C3301, SIS2301 Sim: Non Sim: Non Sim: Non oncurrente: Non Outcomes: 2, 7 Outcomes: 4, 5 utcomes: 7. 9 Outcomes: 1, 5, 8, 9 Outcomes: 5 Outcomes: 9 Outcomes: 5 CRS: MAT 1307 CRS: FIS 1302 CRS: IMEC 2301 CRS: SIS 2301 CRS: IMEC 3303 CRS: IMEC 3305 CRS: CMP 3301 CRS: INT 4325 Structured Programming with Dynamics of Mecha Mechatronic Practicum II: Design Superior Mathematics Electrical Circuits I Manufacturing process Digital Signal Processing Computer-Aided Manufacturing Microcontrollers Systems Project Credits: 9 Hrs: 4.5 Credits: 7 Hrs: 4.5 Credits: 6 Hrs: 4.5 Req: IMEC1302 Sim: Non Req: SIS1301 Sim: Non Req: Non Req: Non Req: MAT 2306 Req: IMEC1301, IMEC2301 Req: MAT2309 Req: INT4324 , IELC4301 Sim: Non Sim: Non Sim: Non Sim: Non Sim: Non Sim: Non Outcomes: 7, 8 Outcomes: 7 Outcomes: 3, 9 Outcomes: 1, 7, 8, 9, 10 Outcomes: 5 Outcomes: 5 Outcomes: 9 utcomes: 5, 6 CRS: ADM2302 Entrepreneurship and Materials Engineering innovation Credits: 6 Hrs: 4.5 Credits: 6 Hrs: 3 Rea: QUI1301 Reg: Non im: Non Outcomes: 6 Elective Professional Block 1 Elective Professional Block 2 Elective Professional Block 4 redits: 6 Credits: 6 Credits: 6 ELECTIVE PROFESSIONAL LOCK (choose 4 subjects fro 24 lective Professional Block 3 your career catalog, listed below) redits: 6 CRS: HUM1303 CRS: HUM1302 CRS: HUM2301 CRS: HLIM2302 CRS: HUM3301 CRS: LDR3301 Classical and Contemporary erson and Transcendence eing a University Student Meaning of Life Ethics Humanism ANÁHUAC BLOCK 42 Credits: 6 Hrs: 3 Credits: 6 Hrs: 3 Credits: 9 Hrs: 4.5 Credits: 6 Hrs: 3 Credits: 9 Hrs: 4.5 Credits: 6 Hrs: 3 (HUMANITIES) Rea: HUM1303 Rea: HUM1302 Rea: HUM1302 Rea: Non Rea: 110 Credits Reg: Non

Outcomes: 3

utcomes: 3and4



## REMEMBER THAT THROUGHOUT YOUR CAREER YOU MUST COMPLETE AT LEAST TWO SUBJECTS OF THE PROFESSIONAL BLOCK FULLY ONLINEANDAL LEAST TWO IN ENGLISH LANGUAGE. WE RECOMMEND YOU TO REGISTER AT LEAST ONE COURSE OF HUMANITIES IN EACH SEMESTER SO THAT YOU CAN FINISH YOUR CAREER IN THE TIME YOU HAVE PLANNED. PLAN THE PROGRESS OF YOUR STUDIES

his curricular map shows an appropriate ordering of how you can study your subjects. In its preparation, the academic staff considered the complexity, difficulty and progression of the contents of the subjects.

AV BONO MA												
MÉXICO NORTE			CURRICULUM MAP OF THE DEGR	EE IN MECHATRONIC ENGINEERING	G PLAN 2016							
ACADEMIC AREA	SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4	SEMESTER 5	SEMESTER 6	SEMESTER 7	SEMESTER 8	SEMESTER 9	Credits		
ELECTIVE BLOCK OF GENERAL STUDIES You can choose 2 subjects of 6 Credits each and 3 workshops or activities of 3 Credits each)	Workshop or general activity 1 Credits: 3 Outcomes: ANÁHUAC			Credits: 3	General elective subject 1 Credits: 6 Outcomes: ANÁHUAC		Credits: 6	Workshop or general activity 3 Credits: 3 Outcomes: ANÁHUAC		21		
Credits	42	42	43	45	42	39	45	45	48	391		
Materias	7	6	6	7	7	6	7	7	7	60		

Below are the elective professional block subjects from which you can select the subjects you wish to study

	rofessional block subjects from w		s you wish to study					
ecord if the subjects m	ake up a diploma or the student							
	CRS: IMEC 3308	CRS: IMEC 2304	CRS: IMEC 3309	CRS: IMEC 2305	CRS: IMEC 3310			
	Analysis of Automotive Systems	Advanced Computer Design	Vibration analysis	Operation of Heat Machines	Computer Aided Engineering			
CATALOG OF ELECTIVE	Analysis of Automotive Systems	Advanced Computer Design	Vibration analysis	Operation of Heat Machines	Computer Aided Engineering			
PROFESSIONAL SUBJECTS,	Credits: 6 Hrs: 3	Credits: 6 Hrs: 3	Credits: 6 Hrs: 4.5	Credits: 6 Hrs: 3	Credits: 6 Hrs: 3			
Professional area: Diploma in	1							
Automotive Mechanics	Req: Non	Req: IMEC1301	Req: IMEC2302, IMEC3303	Req: QUI1302	Req: IMEC1301, IMEC3304			
	Outcomes: 5	Outcomes: 9	Outcomes: 7	Outcomes: 7	Outcomes: 7, 9			
	CRS: IMEC 3312	CRS: IMEC 3311	CRS: IMEC 3302	CRS: IIND 4304				
CATALOG OF ELECTIVE			Integrated Manufacturing					
PROFESSIONAL SUBJECTS,	Metalworking processes	Polymer Engineering	Systems	Safety and Industrial Facilities				
Professional Area: Diploma of	f Credits: 6 Hrs: 4.5	Credits: 6 Hrs: 3	Credits: 6 Hrs: 4.5	Credits: 6 Hrs: 3				
Manufacturing Systems	Req: Non	Req: IMEC1302	Req: IMEC2301	Req: Non				
	Outcomes: 7	Outcomes: 6, 9	Outcomes: 9	Outcomes: 7				
	CRS: IMEC 4306	CRS: IMEC 4308	CRS: IMEC 4304	CRS: IMEC 4305	CRS: IMEC 3313	CRS: IMEC 4307		•
CATALOG OF ELECTIVE	Service Robotics	Industrial Vision Systems	Inmotics and Domotics	Industrial networks	SCADA systems	Servopositioning systems		
PROFESSIONAL SUBJECTS,		•			· ·	, , ,		
Professional area: Diploma	Credits: 6 Hrs: 4.5	Credits: 6 Hrs: 4.5	Credits: 6 Hrs: 4.5	Credits: 6 Hrs: 4.5	Credits: 6 Hrs: 3	Credits: 6 Hrs: 4.5		
Industrial Automation	Req: IELC4301	Req: SIS2301	Req: IELC4301	Req: IELC4301	Req: IELC4301	Req: IMEC4302		
	Outcomes: 9	Outcomes: 7	Outcomes: 7, 9	Outcomes: 7	Outcomes: 7	Outcomes: 7, 9	CRS: IMEC 1306	
	CRS: IIND 4301	CRS: IIND 2308	CRS: IMEC 1305	CRS: IELC 1301	CRS: CMP 1305	CRS: IIND 4302	CRS: IMEC 1306	
	Supply Chain I: Location and		Cartes Education to	Cutting-Edge Topics in Electronic	Cartino Education to	Supply Chain II: Planning and	Selected Mechatronics	
CATALOG OF PROFESSIONAL	Design of Facilities	Introduction to Lean thinking	Cutting-Edge Topics in Computing	Engineering	Mechanical Engineering	Control of Production and	Engineering Certification Topics	
ELECTIVE SUBJECTS Other	Design of Facilities		Computing	Engineering	iviechanicai Engineering	Inventories	Engineering Certification Topics	
Subjects	Condition C. Hours	Souther S. Harris	Condition C. Hours	Condition C. House 2	Condition C. Harris	Condition 7 Hours 4.5	Souther S. Herr 3	
	Credits: 6 Hrs: 3 Rea: Non	Credits: 6 Hrs: 3 Rea: Non	Credits: 6 Hrs: 3 Rea: Non	Credits: 6 Hrs: 3 Rea: Non	Credits: 6 Hrs: 3 Req: Non	Credits: 7 Hrs: 4.5 Reg: IIND4301	Credits: 6 Hrs: 3 Reg: Non	
	Outcomes: 7, 9	Outcomes: 5	Outcomes: 3	Outcomes: 3	Outcomes: 3	Outcomes: 7,10	Outcomes: 3	
	CRS: IIND 2306	CRS: IIND 2311	CRS: IIND 2309	CRS: IIND 2310	CRS: ADM 4312	CRS: IELC 4304		
CATALOG OF BROFFSSIONAL	Value chain	Negatistica	look in hims	Cantinuana Impananana	Strategie Blanning	Digital Circuita II		
CATALOG OF PROFESSIONAL ELECTIVE SUBJECTS Other	Value chain	Negotiation	Just in time	Continuous Improvement	Strategic Planning	Digital Circuits II		
Subjects	Credits: 6 Hrs: 3	Credits: 6 Hrs: 3	Credits: 6 Hrs: 3	Credits: 6 Hrs: 3	Credits: 6 Hrs: 3	Credits: 6 Hrs: 4.5		
	Req: Non	Req: Non	Req: Non	Req: Non	Req: Non	Req: IELC3301		
	Outcomes: 9	Outcomes: 8	Outcomes: 9	Outcomes: 10	Outcomes: 10	Outcomes: 7, 9		
	CRS: IIND 2301	CRS: IIND 1301	CRS: IIND 4307	CRS: CUL 1301	CRS: HUM 1301	CRS: ADM 2305		
	Secretary the delegation	Selected Topics of Engineering	Comprehensive Management	Selected Topics of Science and	Harton and Colombia Transfer	D		
ATALOG OF ELECTIVE PROFESSIONAL SUBJECTS	Research methodology	and Exact Sciences	Systems	Culture	University Selected Topics	Design and Project Management		
Other subjects	Creditor 6 Hear 2	Creditor C. Henry			Conditor C. Herr 3	Creditor 6 Hear 2		
Other subjects	Credits: 6 Hrs: 3 Req: Non	Credits: 6 Hrs: 3 Reg: Non	Credits: 6 Hrs: 3 Req: Non	Credits: 6 Hrs: 3 Req: Non	Credits: 6 Hrs: 3 Req: Non	Credits: 6 Hrs: 3 Req: Non		
		London Comp.					I	
	Outcomes: 6	Outcomes: 3	Outcomes: 10	Outcomes: 1	Outcomes: 1	Outcomes: 8, 10		