



ICOM Curriculum 2025			
FIRST SEMESTER	CRS	SECOND SEMESTER	CRS
<b>FIRST YEAR</b>			
INGE 3011 ENGINEERING GRAPHICS I	2	MATE 3031 CALCULUS I	4
ESPA 3131 ACAD. LITERACY I OR ESPA 3101 BASIC SPANISH I	3	ESPA 3132 ACAD. LITERACY II OR ESPA 3102 BASIC SPANISH II	3
____ ETHICS ELECTIVE	3	INGL 3 ____ 1 <sup>ST</sup> YR ENGLISH	3
INGL 3 ____ 1 <sup>ST</sup> YR ENGLISH	3	ICOM 4075 FOUNDATIONS OF COMPUTING	3
INGE 3016 ALGORITHMS AND COMP. PROGRAM	3	INEL 4205 LOGIC CIRCUITS	3
ICOM 3007 PROFESSIONAL PRACTICE PREPARATION	1		
SUBTOTAL	15	SUBTOTAL	16
CONTACT HOURS	17	CONTACT HOURS	16
<b>SECOND YEAR</b>			
MATE 3032 CALCULUS II	4	MATE 4031 LINEAR ALGEBRA	3
FISI 3171 PHYSICS I	4	FISI 3172 PHYSICS II	4
FISI 3173 LAB PHYSICS I	1	FISI 3174 LAB PHYSICS II	1
ICOM 4015 ADV. PROGRAMMING	4	EDFI ____ PHYSICAL EDUCATION	1
INEL 4206 MICROPROC. & EMBED. SYST.	3	ICOM 4035 DATA STRUCTURES	4
		ICOM 4215 COMP. ARCH. & ORG.	3
SUBTOTAL	16	SUBTOTAL	16
CONTACT HOURS	17	CONTACT HOURS	17
<b>THIRD YEAR</b>			
MATE 3063 CALCULUS III	3	MATE 4009 ORD DIFF EQUATIONS	3
INEL 3105 ELECT SYST ANALYSIS I	3	INEL 4102 ELEC. SYST. ANA. II	3
INEL 4115 ELEC. MEAS LAB.	1	INEL 4201 ELECTRONICS I	3
INGL 3 ____ 2 <sup>ND</sup> YEAR ENGLISH	3	INGL 3 ____ 2 <sup>ND</sup> YEAR ENGLISH	3
EDFI ____ PHYSICAL EDUCATION	1	INEL 4211 ELECTRONICS LAB.	1
____ FREE ELECTIVE	3	____ SOC/HUMA ELECTIVE	3
SUBTOTAL	14	SUBTOTAL	16
CONTACT HOURS	15	CONTACT HOUR	18
<b>FOURTH YEAR</b>			
INEL 4095 SIGNALS & SYSTEMS	3	ICOM 4217 EMBEDDED SYSTEMS DESIGN	4
INEL 4218 INTEGRATED CIRCUITS ENGINEERING	3	ICOM 4047 OPERATING SYSTEMS PROGRAMMING	4
____ FREE ELECT.	3	QUIM 3171 GENERAL CHEMISTRY FOR ENGINEERING STUDENTS	4
ICOM 4308 NETWORKING AND ROUTING FUNDAMENTALS	3	QUIM 3172 GENERAL CHEMISTRY FOR ENGINEERING STUDENTS LABORATORY	1
ININ 4010 PROB & STATISTICS FOR ENGINEERS	3		
SUBTOTAL	15	SUBTOTAL	13
CONTACT HOURS	16	CONTACT HOURS	18
<b>FIFTH YEAR</b>			
ICOM 4145 PLANNING AND DESIGN CYBER-PHY SYSTEMS	4	ICOM 4990 COMP ENG DESIGN (CAPSTONE)	3
____ FREE ELECT.	3	____ FREE ELECT.	3
____ TECH. ELECT. [INEL/ICOM]	6	____ SOCIO / HUM. ELECT	3
ININ 4015 ECON. ANALYSIS FOR ENGINEERS	3	____ TECH. ELECT. [INEL/ICOM]	3
SUBTOTAL	16	SUBTOTAL	12
CONTACT HOURS	16	CONTACT HOURS	14
<b>TOTAL, PROGRAM CREDITS: 149</b>			