

2009 / 2010 CURRICULUM - ELECTRICAL ENGINEERING

EIGHT SEMESTER PROGRAM Total credits: 138

First (Fall) Semester

CHEM 110 General Chemistry 1

MATH 140 Calculus 1

PHYS 131 Mechanics & Waves

MATH 133 Vectors, Matrices & Geometry

FACC 100 Intro. to Engineering Profession

15 credits

(4 cr)

(3 cr, P - High school Calculus)

(4 cr)

(3 cr)

Second (Winter) Semester

CHEM 120 General Chemistry 2

MATH 141 Calculus 2

PHYS 142 Electromagnetism & Optics

XXXX xxx Humanities & Social Sciences 1*

18 credits

(4 cr)

(4 cr, P - MATH 139 or MATH 140 or MATH 150)

(4 cr, P - PHYS 131)

(3 cr)

Technical Complementaries (4 courses) 12 credits

Course	Course Title	Pre-Requisites and Co-Requisites
ECSE 404	Control Systems	(3 cr, C - ECSE 304 or ECSE 306)
ECSE 405	Antennas	(3 cr, P - ECSE 303 & ECSE 352)
ECSE 411	Communications Systems 1	(3 cr, P - ECSE 305 & ECSE 304 or ECSE 306)
ECSE 412	Discrete-Time Signal Processing	(3 cr, P - ECSE 304 or ECSE 306)
ECSE 413	Communications Systems 2	(3 cr, P - ECSE 411)
ECSE 414	Intro. to Telecom Networks	(3 cr, P - ECSE 304 or ECSE 306 & ECSE 322)
ECSE 420	Parallel Computing	(3 cr, P - ECSE 427)
ECSE 421	Embedded Systems	(3 cr, P - ECSE 322 & ECSE 323)
ECSE 422	Fault Tolerant Computing	(3 cr, P - ECSE 322)
ECSE 423	Fundamentals of Photonics	(3 cr, P - ECSE 352)
ECSE 424	Human-Computer Interaction	(3 cr, P - ECSE 322)