LEAP Program Plan   Electrical Engineering

Student:_____   **BU-ID#** _____

Course pre-requisites are listed in parentheses. Other required courses may be designated as part of the advising process. All students must present evidence of previous equivalent coursework or complete the following:

	Taken	Needs	#	Title
	Core Courses			
1			ENG EK 125	Introduction to Programming for Engineers
2			CAS MA 124	Calculus II (MA 123)
3			CAS MA 226	Differential Equations
4			ENG EK 381	Probability, Statistics, and Data Science for Engineers
5			CAS PY 211 (F)	Physics I (co-req. MA124)
6			ENG EK 307	Electric Circuit Theory
7			ENG EC 401	Signals and Systems (MA 226, EK307)
8			ENG EC 410	Introduction to Electronics (EK 307)
	Track Courses - choose one track (a) through (e)			
a	**Bio-electric:-Select three of the following:**			
			CAS PY 212 (S)	Physics II (PY 211)
			CAS PY 313	Elementary Modern Physics (PY 212)
			ENG EC 311	Introduction to Logic Design (co-req. EK 307)
			ENG EC 402 (S)	
			or ENG BE 402 (S)	Control Systems (EC 401 or BE 403)
			ENG EC 412 (S)	Analog Electronics (EC410)
			ENG EC 416	Introduction to Digital Signal Processing (EC 401)
b	**Computer**			
			ENG EC 311	Introduction to Logic Design (co-req. EK 307)
			ENG EC 413 (F)	Computer Organization (EC311)
			ENG EC 450	Microprocessors (EC 327 and EC413)
c	**Electromagnetics – Select three of the following**			
			CAS PY 212 (S)	Physics II (PY 211)
			ENG EC 455 (F)	Electromagnetic Systems I (PY 212 and MA 226)
			ENG EC 456 (S)	Electromagnetic Systems II (EC 455)
			ENG EC 470 (S)	Sensors in Space (PY 212)
d	**Electronics**			
			CAS PY 212 (S)	Physics II (PY 211)
			CAS PY 313	Elementary Modern Physics (PY 212)
			ENG EC 471 (S)	Physics of Semiconductor Devices (PY 313 or PY 354)
			ENG EC412	Analog Electronics
e	**Information Systems**			
			ENG EC 402 (S)	Control Systems (EC 401)
			ENG EC 415 (S)	Communication Systems (EC401)
			ENG EC 416 (S)	Introduction to Digital Signal Processing (EC 401)

Minimum # of courses needed for LEAP foundation: _____

Comments:

Advisor Initials:_____ Date: _____

LEAP Program Plan   Electrical Engineering

Student:_____   BU-ID# _____

Foundation Planning Sheet
Enter the course numbers for each LEAP foundation Semester/Year.

Semester Year	Semester Year	Semester Year

Semester Year	Semester Year	Semester Year