

Program Planning Guide for LEAP – EE

This sheet is intended to guide students in the Late Entry Accelerated Program (LEAP) with an intended master’s in **electrical and computer engineering, with a focus on electrical engineering** through their foundational phase courses. A final decision on exactly which courses a student is required to take will be made during a conversation with their faculty advisor. Other required courses may be designated as a part of the advising process.

*LEAP students are required to earn a B or higher in a Calculus I course prior to **matriculating** into LEAP. Students who have not taken Calculus I prior to matriculating will not be able to start the LEAP foundational phase curriculum, which begins immediately with Calculus II and other courses building on Calculus I concepts.*

As stated in the [academic bulletin](#), effective Fall 2025, LEAP students must abide by the following guidelines to successfully move into their master’s program:

- After matriculating into LEAP, a student must take at least two-thirds of courses required for their foundational phase through Boston University. The full list of courses needed for a student’s foundational phase will be determined during a conversation with their faculty advisor.
 - For example, if a student needs 12 courses to complete their foundational phase and has taken 3 of those courses prior to matriculating into LEAP, they will have 9 required courses in their foundational phase after matriculating. They will be required to take 6 of the 9 courses at BU.
- A student cannot take courses outside of Boston University during the Fall and Spring semesters.
- If a student is interested in taking courses outside of Boston University during a summer semester, they will need to first obtain approval from their faculty advisor.
- Audited courses will not count towards a student’s foundational phase. To view the full audit policy, please visit our page [here](#).

Taken	Need	College	Course	Course Title	Pre-requisites	Co-requisites	Units
Core Courses							
		ENG	EK 125	Intro to Programming for Engineers			4
		CAS	MA 124	Calculus II	Calc I		4
		CAS	MA 226	Differential Equations	Multivariate Calc or CAS MA 230		4
		CAS	PY 211	General Physics I (calculus-based)	Calc I	Calc II	4
		CAS	CH 131	General Chemistry for Engineering Sciences	Calc I		4
		ENG	EK 307	Electric Circuits	General Physics II		4
		ENG	EK 381	Probability, Statistics, & Data Science for Engineers	Multivariate Calc, EK 103		4
		ENG	EC 401	Signals and Systems	Differential Equations, EK 307		4
		ENG	EC 410	Introduction to Electronics	EK 307		4
Choose one of the five tracks below							
A	Bio-electric: Select three of the following courses						
		CAS	PY 212	General Physics II	General Physics I		4
		CAS	PY 313	Elementary Modern Physics	General Physics II		4
		ENG	EC 311	Introduction to Logic Design		EK 307	4
		ENG	EC402 or BE402	Control Systems	EC 401 or BE 403		4
		ENG	EC 412	Analog Electronics	EC 410		4
		ENG	EC 416	Introduction to Digital Signal Processing	EC 401		4
B	Computer						
		ENG	EC 311	Introduction to Logic Design		EK 307	4
		ENG	EC 413	Computer Organization	EC 311		4
		ENG	EC 450	Microprocessors	EC 327, EC 413		4

