## Program Planning Guide for LEAP - RAS

This sheet is intended to guide students in the Late Entry Accelerated Program (LEAP) with an intended master's in **robotics and autonomous systems** 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.
  - o 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 C	ourses						
		CAS	MA 124	Calculus II Calc I			4
		CAS	MA 225	Multivariate Calculus	Calc II		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
		ENG	EK 103	Computational Linear Algebra			3
		ENG	EK 301	Engineering Mechanics I General Physics I, EK 125		Multivariate Calc	4
		ENG	EK 302	Engineering Mechanics II EK 301			
		ENG	ME 357	Introduction to Computer Aided Design			2
		ENG	EK 381	Probability, Statistics, & Data Science for Engineers	Multivariate Calc, EK 103		4
Contro	ls - cho	ose one of	the follow	ring courses			
		ENG	ME 404	Dynamics and Control of Mechanical Systems			4
		ENG	EC 402	Control Systems			4
		ENG	BE 404	Modern Control in Biomedical Engineering			4
Electric	cal or M	echanical	Design – c	choose one of the following courses			
		ENG	EK 307	Electric Circuits	General Physics II		4
		ENG	EC 410	Intro to Electronics *for students familiar with EK307 materials			4
		ENG	ME 360	Electromechanical Design *for students interested in CAD			4
				based design			
Program	mming -	choose o	ne of the f	ollowing courses			
		ENG	EK 125	Introduction to Programming for Engineers *for students with no			4
				programming experience			
		ENG	EC 327	Introduction to Software Engineering *for students with			4
				introductory programming experience			

		ENG	EC 413	Computer Organ programming exp	ization *for students with significant perience		4
	o founda	itional pha			urses to put students on par with students gradua ecommends students in LEAP take <b>no more than</b>		
Student	Name: _				Student BUID:	# of foundational	ohase courses needed:
Faculty A	Advisor N	Name:			Faculty Advisor Signature: _		
Semest	ter (e.g. l	Fall 2025)			Course # (e.g. EK125)	Notes	
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