

## Program Planning Guide for LEAP – MSE

**Fall '26 – Spring '27**

This sheet is intended to guide students in the Late Entry Accelerated Program (LEAP) with an intended master's in **materials science & 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. Calculus I courses must have been completed within 5 years of a student's matriculation into LEAP.*

As stated in the [academic bulletin](#), 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 their remaining foundational phase courses at BU. A student's faculty advisor will determine how many courses the student will take during their foundational phase after discussing the student's academic and professional background.
  - **This calculation will not include courses taken prior to starting LEAP.** 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 starting LEAP. Of those 9 required courses, they will be required to take 6 at BU.
- A student cannot take courses outside of Boston University during BU's [academic year](#) (i.e., any time between the Fall semester's first day of classes and Spring semester's final exam day).
- If a student is interested in taking foundational phase 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](#).

*\*This program planning sheet is designed for LEAP students starting in Fall 2026 & Spring 2027. Courses listed are subject to change for future semesters.*

Taken	Need	College	Course	Course Title	Pre-requisites	Co-requisites	Units
<b>Core Courses</b>							
		ENG	EK 125	Intro to Programming for Engineers		Calculus I (MA 123)	4
		CAS	MA 124	Calculus II	Calculus I (MA 123)		4
		CAS	MA 225	Multivariate Calculus	Calculus II (MA 124)		4
		CAS	MA 226	Differential Equations	Multivariate Calculus (MA 225 or MA 230)		4
		CAS	PY 211	General Physics I (calculus-based)	Calculus I (MA 123)	Calculus II (MA 124)	4
		CAS	PY 212	General Physics II (calculus-based)	General Physics I (PY 211)		4
		CAS	PY 313	Elementary Modern Physics	Calculus II (MA 124) and General Physics II (PY 212)		4
		CAS	CH 131	General Chemistry for the Engineering Sciences		Calculus I (MA 123)	4
		ENG	EK 301	Engineering Mechanics I	General Physics I (PY 211)	Multivariate Calculus (MA 225) and Intro to Programming for Engineers (EK 125)	4
		ENG	ME 304	Energy and Thermodynamics	General Physics I (PY 211)	Multivariate Calculus (MA 225)	4
		ENG	ME 306	Introduction to Materials Science	General Physics II (PY 212) and General Chemistry for the Engineering Sciences (CH 131)		4

