n	Materials	Science	& Engineering
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LEAP	Program	Plan
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## 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:

C	Core Courses	S		
	Taken	Needs	#	Title
1			ENG EK 121	Introduction to Programming & Data Science
2			ENG EK 122	Programming for Engineers
3			CAS MA 124	Calculus II (MA 123)
4			CAS MA 225	Multivariate Calculus (MA124)
5			CAS MA 226	Differential Equations (MA225)
6			CAS PY 211	Physics I (co-req. MA124)
7			CAS PY 212	Physics II (PY 211)
8			CAS PY 313	Elementary Modern Physics (MA 124 and PY212)
9			ENG EK 301	Engineering Mechanics I (PY 211 and EK 127; co-req. MA 225)
10			ENG ME 304	Energy and Thermodynamics (PY 211, co-req. MA 225)
11			ENG ME 306	Introduction to Materials Science (PY 212; PY 313 recommended)
12			oose one track (a	
a	Biomate	rials – ch		ence (either CH101 and 102 or CH171 and 172)
			CAS CH 101	General Chemistry I <b>and</b>
			CAS CH 102	General Chemistry II
			CAS CH 171	Principles of General Chemistry and
			CAS CH 172	Principles of Organic Chemistry (CH171)
b	Materials	for Energ	y and Environm	ient
			CAS CH 131	General Chemistry for the Engineering Sciences
			ENG EK 335 (S)	Introduction to Environmental Engineering
			<b>Or</b> ENG EK 408 (F)	Introduction toClean Energy and Storage Technologies (PY 211, PY212, CH131, MA123)
С	Electronic	/Photoni	c Materials	
			CAS CH 131	General Chemistry for the Engineering Sciences
			ENG EK 307	Electric Circuit Theory (co-reqs. MA 226 and PY212)
d	Nanomate	erials		
			CAS CH 131	General Chemistry for the Engineering Sciences

Minimum # of courses needed for LEAP foundation: \_\_\_\_\_\_ Comments:

Advisor Initials:\_\_\_\_\_ Date: \_\_\_\_\_

LEAP P	rogram	Plan
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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	
Semester	Year	Semester	Year	Semester	Year	_
Semester	Year	Semester	Year	Semester	Year	
Semester	Year	Semester	Year	Semester	Year	
Semester	Year	Semester	Year	Semester	Year	