Mechanical Engineering Associate of Science | Degree Map

Follow this map to graduate in two years, though other paths are possible. You must average 15 credits a semester to finish in two years. Contact an advisor for additional support, and see the back for more information.

	Course PC = Program Core; RC = Required Core; FC = Flexible Core	Category	Credits	Session
SEMESTER 1	ECF090 First Year Seminar for Engineering & Computer Science	PC	0 (2hrs)	1
	ENG101 English Composition I	RC	3	I
	MAT201 Calculus I (see Math note on back)	RC	4	1
	SCC201 General Chemistry I	PC	4	1
	MAC102 C/C++ Programming	PC	3	П
	HUP104 Ethics & Moral Issues (recommended – see back)	FC	3	II
	Course	Category	Credits	Session
SEMESTER 2	ENG259 Technical Writing	RC	3	1
	MAT202 Calculus II (Scientific World: pre-req for MAT203)	FC	4	1
	MAE101 Engineering Lab I	PC	1	1
	SCP231 General Physics I (Life and Physical Sciences: pre-req for SCP232)	RC	4	1
SE	MAT203 Calculus III	PC	4	II
	Course	Category	Credits	Session
STER 3	SCP232 General Physics II (Scientific World)	FC	4	I
	SCC202 General Chemistry II	PC	4	1
	HUM101 Intro to Music or HUA101 Intro to Art (recommended)	FC	3	ı
		10	3	•
ME	SSA101 Cultural Anthropology (recommended)	FC	3	i I
SEMESTER	·			i I
SEME	SSA101 Cultural Anthropology (recommended)	FC PC	3	II Session
	SSA101 Cultural Anthropology (recommended) MAT204 Elementary Differential Equations	FC	3 4	
4	SSA101 Cultural Anthropology (recommended) MAT204 Elementary Differential Equations Course	FC PC Category	3 4 Credits	
4	SSA101 Cultural Anthropology (recommended) MAT204 Elementary Differential Equations Course MAE219 Thermodynamics (Capstone)	FC PC Category PC	3 4 Credits 3	
	SSA101 Cultural Anthropology (recommended) MAT204 Elementary Differential Equations Course MAE219 Thermodynamics (Capstone) MAE211 Engineering Mechanics: Statics	FC PC Category PC PC	3 4 Credits 3 3	

Start planning now for what comes after graduation! Connect with <u>Transfer Services</u> and the <u>Center for Career & Professional</u> <u>Development</u>. Also see the back of this map for more information on transfer.

	Credits Required to Graduate <u>Category</u>		More information at <u>laguardia.edu/engineeringscience</u>
346	Pathways Required Core (RC) Pathways Flexible Core (FC)	14 20	Effective Fall 2019-Spring 2020 catalog. Updated: 4/12/2022
LaGuardia	Program Core (PC)	29	Follow the map for the catalog year in which you first enrolled.
Community College	Total	63	Check Degree Audit & speak to an advisor for more support.

Program Core (PC) and Pre/Co-requisites

The Program Core (PC) is the required set of major-specific courses. Refer to the Pre- and Co-requisite list below to ensure you register for the appropriate courses.

Pre-requisite: A course which must be completed <u>prior</u> to

taking another course

Co-requisite: A course which must be taken during the same session as another course.

1. MAT201 PRE: MAT200 or Placement (PRE for MAT 200: MAT115/117 or Placement)

2. SCC201 PRE: English Proficiency & MAT115

MAC102 PRE: MAT200
 MAT202: PRE: MAT201

5. MAE101 PRE: MAT200 & PRE/CO: ENG2596. SCP231 PRE: English Proficiency & MAT201

7. MAT203 PRE: MAT202

8. SCP232 PRE: SCP231 & MAT202

9. SCC202 PRE: SCC201

MAT204 PRE: MAT202 & PRE/CO: MAT203
 MAE211 PRE: MAE101 & MAT 203 & SCP231
 MAE213 PRE: MAE101&MAT203&SCP232&P/C: MAT204

13. MAE219 PRE: MAE101&ENG101&SCP232&MAT203&SCC201 & P/C: MAT204

City College Dual Enrollment

Engineering is a "dual enrollment" program. Once students complete their studies at LaGuardia, they will have the opportunity to transition to City College as third year students in pursuit of a bachelor's degree.

Pathways Requirements & Transfer

PATHWAYS REQUIRED CORE (RC) Pathways is CUNY's general education framework. For Required Core, students must take 2 English courses, 1 Mathematics and Quantitative Reasoning course, and 1 Life and Physical Sciences course. For more details visit the Pathways Required Core website.

MATHEMATICS AND QUANTITATIVE REASONING MAT201 Calculus I is the required course but students may need to first take MAT115/117 Algebra & Trigonemetry and/or MAT200 Precalculus.

PATHWAYS FLEXIBLE CORE is CUNY's general education framework that allows students to choose courses based on interests, transfer or career plans, or for general exploration. Associate of Science students must take one course from each category listed below, plus an additional course from any category. View DegreeWorks or our Pathways website to see a full range of options, or talk with the program director or an advisor. Note: your program has specific requirements & recommendations listed below. The recommendations facilitate transfer to City College or other 4-year engineering programs.

- <u>Creative Expression</u>: **HUM101 Intro to Music** or **HUA101 Intro to Art**
- Individual & Society: HUP104 Ethics & Moral Issues
- Scientific World: MAT202 Calculus II required
- U.S. Experience in its Diversity: SSN187 Urban Sociology
- World Cultures and Global Issues: SSA101 Cultural Anthropology
- Additional (Scientific World): SCP232 General Physics II required

TRANSFER AGREEMENTS The Engineering program has an agreement with the following 4-year college. By graduating from LaGuardia and meeting certain requirements, you will be able to complete your studies at a 4-year college and earn a bachelor's degree. For more information, visit our Transfer Agreement (Articulation) web page. You may also speak to an advisor or Transfer Services for more support on transfer.

 City College – Bachelor's of Engineering (dual enrollment program)