

DEGREE MAP

MECHANICAL ENGINEERING: EARTH SYSTEM SCIENCE AND ENVIRONMENTAL ENGINEERING, AS

Follow this map to graduate in two years, though other paths are possible. Contact an advisor on My LaGuardia for additional support or if you require developmental courses. See reverse for additional information.

SEMESTER 1

Course	Category	Priority	Credits	Session
ECF090 First Year Seminar for Engineering & Computer Science	PC	x	0 (2hrs)	I
ENG101 English Composition I	RC	x	3 (4hrs)	I
MAT201 Calculus I ¹	RC	x	4	I
SCC201 General Chemistry I ²	PC	x	4 (6hrs)	I
MAC102 C/C++ Programming ³	PC	x	3 (5hrs)	II
HUP104 Ethics & Moral Issues or other Flexible Core Course Option	FC		3	II

SEMESTER 2

Course	Category	Priority	Credits	Session
ENG259 Technical Writing	RC	x	3	I
MAT202 Calculus II - Scientific World ⁴	FC	x	4	I
MAE101 Engineering Lab I ⁵	PC	x	1 (3hrs)	I
SCP231 General Physics I - Life & Physical Science ⁶	RC	x	4 (6hrs)	I
HUM101 Introduction to Music or other Flexible Core Course Option	FC		3	II

SEMESTER 3

Course	Category	Priority	Credits	Session
MAT203 Calculus III ⁷	PC	x	4	I
SCP232 General Physics II - Scientific World ⁸	FC	x	4 (6hrs)	I
MAE106 Earth Systems Engineering & Science ⁹	PC	x	4 (6hrs)	I
SCC202 General Chemistry II ¹⁰	PC		4 (6hrs)	I
MAT204 Elementary Differential Equations—Unrestricted Elective ¹¹	PC		4	II

SEMESTER 4

Course	Category	Priority	Credits	Session
MAE213 Electrical Circuits ¹²	PC	x	3	I
MAE217 Systems Analysis of the Earth ¹³	PC	x	4 (5hrs)	I
SSN187 Urban Sociology or other Flexible Core Course Option (Urban Studies)	FC		3	I
Flexible Core Course Option	FC		3	I

Register in CUNY First for "Intent to Graduate" (GRDOOO) in your final semester.



DEGREE FULFILLMENT

- 14 credits Pathways Required Core (RC)
- 20 credits Pathways Flexible Core (FC)
- 29 credits Program Core (PC)
- 63 credits Total

laguardia.edu/EngineeringScience

Effective Fall 2019-Spring 2020 Catalog. Reviewed July 2019. Check Degree Audit and speak to an advisor if you enrolled prior to the listed catalog year.

PRE-/CO-REQUISITES

Refer to the Pre- and Co- Requisite List below to best select courses for each semester.

PRE-REQUISITE A pre-requisite course must be completed prior to taking another course.

CO-REQUISITE Co-requisite courses 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: CSE 99 & ENG 99 & MAT 115
3. MAC102 PRE: MAT 200
4. MAT202: PRE: MAT201
5. MAE101 PRE: MAT 200 & PRE/CO: ENG 259
6. SCP231 PRE: CSE 99 & ENG 99 & MAT 201
7. MAT203 PRE: CSE 99 & MAT 202
8. SCP232 PRE: SCP 231 & MAT 202
9. MAE106 PRE: MAT 200 & SCC 201
10. SCC202 PRE: SCC 201
11. MAT204 PRE: MAT 202 & PRE/CO: MAT 203
12. MAE213 PRE: MAE101&MAT203&SCP232&P/C: MAT204
13. MAE217 PRE: MAT201&MAE106&P/C: SCP231

Note: Student may need to take MAT115/117 and MAT200 before starting MAT201 Calculus I .

IMPORTANT NOTES

DEVELOPMENTAL COURSES Based on placement results, you may require additional preparation before entering college-level English or Math courses. Options can include
a) developmental courses such as ENA099 or MAT095;
b) English-as-a-Second-Language (ESL) courses;
c) Co-requisite courses such as ENA/ENC101, CSE111, or MAT117/119/123; or
d) CUNY Start.
Speak to an advisor to find out more.

SESSIONS I AND II Each semester has two parts, Session I (12-weeks) and Session II (6-weeks). It is recommended that you take 15 credits per semester for timely graduation. For questions regarding financial aid or tuition and fees, please visit Student Financial Services in C-107.

CREDITS & HOURS Courses often meet for the same number of hours per week as academic credits awarded, but in some cases your classes meet for more hours, listed in the CREDITS column when applicable.

PRIORITY COURSES Priority Courses are important for your progress in the degree and should be taken in the suggested order.

PATHWAYS FLEXIBLE CORE You may choose Flexible Core courses based on interests or transfer goals. Speak to an advisor or view Degree Audit to see a full list of options and/or requirements. Generally, you must take courses in different categories:

- Creative Expressions
- Individual and Society
- Scientific World
- U.S. Experience in its Diversity
- World Cultures and Global Issues

URBAN STUDIES All students must complete an Urban Studies course to graduate. Urban Studies courses have an "N" at the end of the course code (e.g. HUN192).

**Mathematics, Engineering,
& Computer Science**
E-218 | 718-482-5710

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