

Energy Technician – Electrical Option

Associate of Applied 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	ENG101 English Composition I (or ENA101)		RC	3	I
	MAT115/117 Algebra and Trigonometry (pre-req for MAT200)		RC	3	I
	MAE100 Introduction to Auto CAD		PC	3	I
	MAE109 Introduction to Engineering		PC	2	I
	MAE102 Electrical Drafting & Blueprint Reading		PC	2	II

	Course	Category	Credits	Session
SEMESTER 2	ENG259 Technical Writing	RC	3	I
	MAT200 Precalculus (Scientific World: pre-req for MAT201)	FC	4	I
	SCP101 Topics in Physics (Life and Physical Sciences)	RC	3	I
	MAC241 Computer Electronics I	PC	4	I
	MAE110 Circuits Analysis I	PC	3	II

	Course	Category	Credits	Session
SEME. 3	MAT201 Calculus	PC	4	I
	MAE111 Circuits Analysis II	PC	3	I
	MAC242 Computer Electronics II	PC	3	I
	MAC291 Computer Logic, Design & Implementation I	PC	4	II

	Course	Category	Credits	Session
SEMESTER 4	MAC292 Computer Logic, Design & Implementation II	PC	4	I
	MAE208 Electromechanical Devices	PC	3	I
	Flexible Core Course (see back for more information)	FC	3	I
	Unrestricted Elective (MAE122 recommended/3 credits)	PC	2	I
	Flexible Core Course (Urban Study)	FC	3	II
Register for GRDOOO "Intent to Graduate" in CUNYfirst to apply for graduation in your final semester Students must take at least one Urban Study course				

Start planning now for what comes after graduation! Connect with [Transfer Services](#) and the [Center for Career & Professional Development](#). Also see the back of this map for more information on transfer.



Credits Required to Graduate

Category	Credits
Pathways Required Core (RC)	12
Pathways Flexible Core (FC)	10
Program Core (PC)	38
Total	60

More information at laguardia.edu/energy-technician

Effective Fall 2018-Spring 2019 catalog. Updated: 4/12/2022
 Follow the map for the catalog year in which you first enrolled.
 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 prior to taking another course

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

1. MAE100 PRE: English & Math Proficiency
2. MAT200 PRE: MAT115/117
3. MAE107 PRE: HUA104 & PRE/CO ENG101 & MAE101
4. MAE109 PRE: English & Math Proficiency
5. MAE110 PRE: MAE109& MAT115 & ENG259
6. MAT201 PRE: MAT200
7. MAE190 PRE: MAT200&SCP101&MAE109&ENG25
8. MAE110 PRE: MAE109& MAT115 & ENG259
9. MAE201 PRE: MAT200 & MAE109 & ENG259
10. MAE121 PRE: MAE109 & MAT201
11. MAE191 PRE: MAT201 & MAE109 & ENG259
12. MAE207 PRE: MAT201 & MAE109 & ENG259
13. MAE208 PRE: MAE111 & ENG259
14. MAE230 PRE: MAE208

Program Notes

Due to a change in MAE100, formerly a 4-credit course and as of Fall 2019 a 3-credit course, there is a total of 59 credits listed. Students are recommended to take MAE 122, a 3-credit course as an Unrestricted Elective, to reach 60 credits.

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 Students should take the highest level math they place into – MAT115/117 Algebra & Trigonometry, MAT200 Precalculus, or MAT201 Calculus I.

PATHWAYS FLEXIBLE CORE (FC) allows students to choose courses based on interests, transfer or career plans, or for general exploration. Associate of Applied Science students must take three courses from three separate categories listed below. 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 listed below.

- Creative Expression
- Individual & Society
- Scientific World: **MAT200 Precalculus required**
- U.S. Experience in its Diversity
- World Cultures and Global Issues

TRANSFER The Energy Technician is geared towards students who wish to immediately enter the workforce as Technicians. Transfer possibilities could include Bachelor in Engineering programs