

# Energy Technician – Mechanical 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
	SCP101 Topics in Physics (Life and Physical Sciences)		RC	3	I
	MAE100 Introduction to Auto CAD		PC	3	I
	Flexible Core Course (Urban Study) (see back for more information)		FC	3	II

	Course	Category	Credits	Session
SEMESTER 2	ENG259 Technical Writing	RC	3	I
	MAT200 Precalculus ( <b>Scientific World: pre-req for MAT201</b> )	FC	4	I
	MAE107 Manufacturing Processes	PC	3	I
	MAE109 Introduction to Engineering	PC	2	I
	MAE110 Circuits Analysis I	PC	3	II

	Course	Category	Credits	Session
SEMESTER 3	MAT201 Calculus	PC	4	I
	MAE190 Material Sciences	PC	3	I
	MAE111 Circuits Analysis II	PC	3	I
	MAE201 HVAC Systems	PC	3	I
	Flexible Core Course	FC	3	II

	Course	Category	Credits	Session
SEMESTER 4	MAE121 Instrumentation	PC	3	I
	MAE191 Statics and Strengths of Materials	PC	3	I
	MAE207 Intro to Thermodynamics for Technicians	PC	3	I
	MAE208 Electromechanical Devices	PC	3	I
	MAE230 Senior Design Project	PC	2	II
<b>Register for GRDOOO "Intent to Graduate" in CUNYfirst to apply for graduation in your final semester</b> <b>Students must take at least one Urban Study course</b>				

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
<b>Total</b>	<b>60</b>

More information at [laguardia.edu/energy-technician](http://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

## Other 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, including a list of Life and Physical Sciences courses, 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** because it is needed for MAC101
- 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.