Earth System Science & Environmental Engineering Associate of Science | Degree Map

	Course	Category	Credits	Session
SEMESTER 1	ECF100 First Year Seminar for Engineering & Computer Science	PC	2	I
	ENG101 English Composition I	RC	3	1
	MAT201 Calculus I (see Math note on back)	RC	4	1
	SCC201 General Chemistry I	PC	4	I
	MAC108 Introduction to Python	PC	3	П
	HUP104 Ethics & Moral Issues (recommended)	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	I
	MAE101 Engineering Lab I	PC	1	1
	SCP231 General Physics I (Life and Physical Sciences: pre-req for SCP232)	RC	4	1
	HUM101 Intro. to Music or HUA101 Intro. to Art (recommended)	FC	3	II
	Course	Category	Credits	Session
3	MAT203 Calculus III	PC	4	I
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	SCP232 General Physics II (Scientific World)	FC	4	I
	SCP232 General Physics II (Scientific World) MAE106 Earth Systems Engineering & Science	FC PC	4 4	1 1
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SEMESTER 3	MAE106 Earth Systems Engineering & Science	PC	4	
	MAE106 Earth Systems Engineering & Science SCC202 General Chemistry II	PC PC	4	 I Session
	MAE106 Earth Systems Engineering & Science SCC202 General Chemistry II MAT204 Elementary Differential Equations – Unrestricted Elective	PC PC PC	4 4 4	
4 SEMESTER	MAE106 Earth Systems Engineering & Science SCC202 General Chemistry II MAT204 Elementary Differential Equations – Unrestricted Elective Course	PC PC PC	4 4 4 Credits	
4 SEMESTER	MAE106 Earth Systems Engineering & Science SCC202 General Chemistry II MAT204 Elementary Differential Equations – Unrestricted Elective Course MAE217 Systems Analysis of the Earth (Capstone)	PC PC Category PC	4 4 4 Credits	
4 SEMESTER	MAE106 Earth Systems Engineering & Science SCC202 General Chemistry II MAT204 Elementary Differential Equations – Unrestricted Elective Course MAE217 Systems Analysis of the Earth (Capstone) MAE213 Electrical Circuits	PC PC Category PC PC	4 4 4 Credits 4 3	
4 SEMESTER	MAE106 Earth Systems Engineering & Science SCC202 General Chemistry II MAT204 Elementary Differential Equations – Unrestricted Elective Course MAE217 Systems Analysis of the Earth (Capstone) MAE213 Electrical Circuits MAT212 Linear Algebra & Vector Analysis (new requirement)	PC PC Category PC PC PC	4 4 4 Credits 4 3 3	
SEMESTER	MAE106 Earth Systems Engineering & Science SCC202 General Chemistry II MAT204 Elementary Differential Equations – Unrestricted Elective Course MAE217 Systems Analysis of the Earth (Capstone) MAE213 Electrical Circuits MAT212 Linear Algebra & Vector Analysis (new requirement) SSN187 Urban Sociology (Urban Study) (recommended)	PC PC Category PC PC PC FC FC FC ration in your	4 4 4 Credits 4 3 3 3 3	Session

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LaGuardia
Community College

More information at <u>laguardia.edu/engineeringscience</u>			
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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 (FC) 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 (FC) 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-yearr engineering programs.

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

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