DEGREE MAP | PROGRAMMING & SOFTWARE DEVELOPMENT, AAS

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
CSF101 First Year Seminar for Computer Science[1]	PC	x	2 (3hrs)	I
ENG101 English Composition I	RC	x	3 (4hrs)	I
MAT115 College Algebra and Trigonometry	RC	x	3 (4hrs)	I
SCB101 Topics in Biological Sciences or other Life & Physical Sciences Course Option	RC		3 (4hrs)	I
MAT200 Precalculus[2]	FC	x	4 (5hrs)	II

SEMESTER 2

Course	Category	Priority	Credits	Session
ENG102 English Composition II	RC	x	3	I
MAC101 Introduction to Computer Science[3]	PC	x	3 (4hrs)	I
MAC172 Web Development I[4]	PC	x	3 (4hrs)	I
Flexible Core Course Option	FC		3	I
MAC109 Introduction to Visual Programming[5]	PC	x	3 (4hrs)	II
MAC125 Advanced C/C++ Programming[6]	PC	x	3 (4hrs)	II

SEMESTER 3

Course	Category	Priority	Credits	Session
MAC190 Object-Oriented Programming[7]	PC	x	3 (4hrs)	I
MAC250 Database Concepts and Programming[8]	PC	x	3 (4hrs)	I
MAC221 App Development for iOS[9]	PC		3 (4hrs)	I
MAC232 UNIX Network Operating Systems[10]	PC	x	3 (4hrs)	I
MAC280 Game Programming[11]	PC		3 (4hrs)	II

SEMESTER 4

Course	Category	Priority	Credits	Session
MAC110 Systems Analysis and Design[12]	PC	x	3 (4hrs)	I
MAC220 App Development for Android Devices[13]	PC		3 (4hrs)	I
MAC272 Web Development II[14]	PC		3 (4hrs)	I
Flexible Core Course Option	FC		3	I

Register in CUNYfirst for "Intent to Graduate" (GRD000) in your final semester.

DEGREE FULFILLMENT

12 credits	Pathways Required Core (RC)
9 credits	Pathways Flexible Core (FC)
39 credits	Program Core (PC)
60 credits	**Total**

laguardia.edu/Programming

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.

LaGuardia Community College

PRE-/CO-REQUISITES

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

<u>PRE-REQUISITE</u> A pre-requisite course must be completed prior to taking another course.

<u>CO-REQUISITE</u> Co-requisite courses must be taken during the same session as another course.

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1. CSF101 PRE: None
2. MAT200 PRE: MAT115/117
3. MAC101 PRE: CSE99 &MAT200 & P/C:ENG99
4. MAC172 PRE/CO: MAC 101
5. MAC109 PRE: MAC 101/MAC 108
6. MAC125 PRE: MAC 101
7. MAC190 PRE: MAC 101/MAC 108
8. MAC250 PRE: MAC 101/MAC 108
9. MAC221 PRE: MAC 120
10. MAC232 PRE/CO: MAC101/MAC108
11. MAC280 PRE: MAC 109
12. MAC110 PRE: ENG 101 & MAC 101/109
13. MAC220 PRE: MAC 190
14. MAC272 PRE: MAC 172 & MAC 250

IMPORTANT NOTES

<u>DEVELOPMENTAL COURSES</u> 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.

<u>SESSIONS I AND II</u> 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.

<u>CREDITS & HOURS</u> 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.

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

<u>PATHWAYS FLEXIBLE CORE</u> 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

<u>URBAN STUDIES</u> 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).