

MEDGAR EVERS COLLEGE

B.S. – Computer Science
(Effective Fall 2015)

44 CUNY Common/Flexible Core Credits

76 Major Credits (including Core, Electives & Concentrations if applicable)

The Degree Map is a tool to assist you and your advisor in planning your academic path to graduation. Use it along with the program of study information for your major to discuss your academic plan with your advisor. You need to customize the Degree Map to fit your situation. Consult with your advisor about the best path for you.

MEDGAR EVERS COLLEGE

B.S. – Computer Science

Semester 1

ENG 112	College Composition I	3
CS 140	Computer Science Seminar	3
CS 151 or Natural Science Elective*	Introduction to Computing OR (See advisor for additional information)	3
MTH 202	Calculus I	4

Semester 2

ENGL 150	College Composition II	3
SSC 101	Culture, Society, and Social Change	3
MTH 203	Calculus II	4
CS 244	Object Oriented Programming	3
CS 241	Discrete Structures	3

*Please Note: A Natural Science Elective will not prepare you for upper level computer science courses required for your degree

FRESHMEN

**TOTAL CREDITS
TOWARD DEGREE:
29**

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Semester 3

MUS 100	Introduction to World Music	3
CS 246	Data Structures	3
PHY/L/W 211	University Physics I (Lecture/Lab/Workshop)	4
ART 100	Introduction to World Art	3
ENGL 212	World Literature: The Evolving Canon	3

Semester 4

CS 265	UNIX Systems Programing	3
CS 260	Digital Systems	3
PHY/L/W 212	University Physics II (Lecture/Lab/Workshop)	4
HIST 200	The Growth and Development of the US	3
CS 281	Database Systems	3

SOPHOMORE

**TOTAL CREDITS
TOWARD DEGREE:
61**

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JUNIOR

Semester 5

CS 309* or CS 355	Network Programming OR Mobile Application Development	3
CS 312	Analysis of Algorithms	3
PHY/L/W 213	University Physics III (Lecture/Lab/Workshop)	4
MTH 237	Probability and Statistics	3
Socio-Cultural College Option Course	(See Advisor for additional information)	3

Semester 6

CS 315	Operating Systems	3
CS 325	Computer Architecture	3
CS 345	Scientific Programming	3
CS 305 or CS 307 or CS 308	Data Communications OR Local & Wide Area Network OR Computer & Network Security	3
Humanities College Option Course	(See Advisor for additional information)	3

*Please Note: CS 309 will not prepare you for upper level computer courses required for your degree

**TOTAL CREDITS
TOWARD DEGREE:
92**

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Semester 7

CS 350	Programming Language Paradigms	3
CS 360	Software Engineering	3
CS 319 or CS 321 or CS 380 or CS 390 or AST 215 or AST 216 or MTH 204	Introduction to GIS OR Remote Sensing OR Intelligent Systems OR Scientific Programming II OR Space Science OR Space Science II OR Calculus III (4 credits)	3 (4)
CS 401	Computer Science Internship I	3
Open Elective	(See advisor for additional information)	3

Semester 8

CS 395	Theoretical Computer Science	3
CS 402	Computer Science Internship II	3
Open Elective	(See advisor for additional information)	3
College Option Elective	(See advisor for additional information)	3

SENIOR

**TOTAL CREDITS
TOWARD DEGREE:
119-120**