

**Medgar Evers College, CUNY**  
**Advisement Curriculum Worksheet**  
**Revised: Fall 2009**

School: <b>Science, Health and Technology</b>	Department: <b>Physical, Environmental and Computer Sciences</b>	<b>CURRICULUM CODE: 51</b>
Degree: <b>Bachelor of Science in Computer Science</b>	Total # of Credits for Program Completion: <b>120</b>	
HEGIS CODE: <b>0701</b>	SED CODE: <b>28021</b>	

**Not Active=NA**

Course Number	Course Title	Credits	Semester Taken	Grade	Course Substitute(s)	Pre-Requisite(s)	Co-Requisite(s)
<b>Core Curriculum Requirements</b>							
ART 100 <u>or</u> MUS 100	Introduction to the World of Art <u>or</u> Introduction to the World of Music	2			LAS 201 (NA)		
ENGL 112	College Composition I	3			ENGL 100 (NA) ENGL 101 (NA)	Pass CUNY ACT Reading, Writing and Math, and exit from all Developmental Skills courses	
ENGL 150	College Composition II	3				ENGL 112	
ENGL 211	Introduction to Literature	3				ENGL 150	
ENGL 212	World Literature: The Evolving Canon	3			ENGL 300 (NA) LAS 304 (NA)	ENGL 211	

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FREN 101 <b>or</b> SPAN 101 <b>or</b> ECON 333 <b>or</b> POL 210 <b>or</b> SSC 307	Beginning French I <b>or</b> Beginning Spanish I <b>or</b> International Economics <b>or</b> International Relations <b>or</b> World Geography	3			Any Foreign Language	ECON 213  ENGL 150	FREL 101 <b>or</b> SPAL 101
FS 101	Freshman Seminar I	1			CP 100 (NA)		
FS 102	Freshman Seminar II	1			CP 200 (NA)	FS 101	
HIST 101 <b>or</b> HIST 102	World Civilization I <b>or</b> World Civilization II	3				Pass CUNY ACT Reading, Writing and Math, and exit from all Developmental Skills courses	
HIST 200 <b>or</b> HIST 201	Growth and Development of the USA <b>or</b> African American History and Culture	3			HIST 230 HIST 231 HIST 242	ENGL 150	

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PSYC 101 <u>or</u> PHIL 101 <u>or</u> SSC 101  <u>or</u> SSC 305	Introduction to Psychology <u>or</u> Introduction to Logic <u>or</u> Culture, Society and Social Change  <u>or</u> Critical Issues in Society	3			LAS 102 (NA) for SSC 101 Only	Pass CUNY ACT Reading, Writing and Math, and exit from all Developmental Skills courses  ENGL 150 SSC 101	ENGL 112
BIO 101	Introduction to the Science of Biology	3			Any upper level Biology course	Pass CUNY ACT Reading, Writing and Math, and exit from all Developmental Skills courses	
SPCH 102	Fundamentals of Speech	3					
<b>Major Requirements: 74 Credits</b>							
<b>47 Credits in Computer Science and 27 Credits in Math/Science</b>							
Elective		3					
CS 151	Introduction to Computing	3				MTH 138	MTH 151
CS 244	Object-Oriented Programming and Design	3			CS 263 (NA)	CS 151	
CS 246	Data Structures	3			CS 262 (NA)	CS 244	

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CS 252	Assembly Language Programming	3				CS 244	
CS 260	Digital Systems	4				CS 252	
CS 300	Theoretical Computer Science	3			CS 280	CS 241	
CS 315	Operating Systems	3				CS 246	
CS 381	Database Systems	3			CS 281 (NA)	CS 246	
CS 325	Computer Architecture	3				CS 260	
CS 345	Scientific Programming I/Data Analysis	3				CS 246 MTH 202	
MTH 202	Calculus I	4				MTH 151 with a grade of C or better	
MTH 203	Calculus II	4				MTH 202 with a grade of C or better	
MTH 204	Calculus III	4				MTH 203 with a grade of C or better	
MTH 237	Probability & Statistics	3				MTH 203 with a grade of C or better	
PHY 211	University Physics I	4				PHY 114	MTH 202 PHYL 211 PHYW 211
PHY 212	University Physics II	4				PHY 211	MTH 203 PHYL 212 PHYW 212

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PHY 309 <b>or</b> PHY 213	Electronics <b>or</b> University Physics III	4				PHY 212 <b>or</b> PHY 211	MTH 203  PHYL 213 PHYW 213
CS 401 <b>or</b> PHS 401	Computer Science Internship I <b>or</b> Independent Research I	3				Permission of the Chairperson	
CS 402 <b>or</b> PHS 402	Computer Science Internship II <b>or</b> Independent Research II	3				Permission of the Chairperson	
<b>Concentrations: 12 Credits</b>							
Students must choose one of the following concentrations in Software, Computational Science <b>or</b> Telecommunications							
<b>Software</b>							
CS 265	UNIX Systems Programming	3				CS 244	
CS 280	Artificial Intelligence	3				CS 246	
CS 305	Data Communications and Web Technologies	3				CS 246	
CS 307	Local and Wide Area Networks	3				CS 305	
CS 309	Network Programming	3				CS 305	
CS 310	Special Topics in Computer Science	3				CS 246	
CS 312	Analysis of Algorithms	3				CS 246	

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CS 319	Geographical Information Systems	3				CS 151	
CS 321	Remote Sensing	3				CS 151	
CS 350	Programming Language Paradigms	3				CS 246	
CS 360	Software Engineering	3				CS 246	
CS 392	Advanced Topics in Computer Science	3				CS 345	
<b>Computational Science</b>							
CS 319	Geographical Information Systems	3				CS 151	
CS 321	Remote Sensing	3				CS 151	
CS 390	Scientific Programming II – Models and Simulations	3				CS 345	
	*Computational Science electives must be chosen from advanced courses in the following areas: Biology, Chemistry, Computer Science, Earth Systems, Environmental Science, Mathematics, and Physics.	3					
<b>Telecommunications</b>							
PHS 221	Telecommunications Systems	3				PHY 114 <b>or</b> CS 151	

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CS 280	Artificial Intelligence	3				CS 246	
CS 305	Data Communications and Web Technologies	3				CS 246	
CS 307	Local and Wide Area Networks	3				CS 305	
CS 309	Network Programming	3				CS 305	
PHY 351	Intermediate Electromagnetic Theory	3					MTH 202

\*Note: Within these fields, the following courses are not acceptable: 1) Courses at the 100-level; 2) Courses that have no pre-requisites; and 3) Courses that substantially duplicate material covered in other courses for which credit was granted.