Medgar Evers College, CUNY
Advisement Curriculum Worksheet
Revised: Spring 2007

School: **Science, Health & Technology**	Department: **Mathematics**	CURRICULUM CODE: **80**
Degree: **Bachelor of Science in Mathematical Sciences**	Total # of Credits for Program Completion: **120**	
HEGIS CODE: **0701**	SED CODE: **24165**	

Not Active=NA

Course Number	Course Title	Credits	Semester Taken	Grade	Course Substitute(s)	Pre-Requisite(s)	Co-Requisite(s)
ART 100	Introduction to the World of Art	2			LAS 201 (NA)		
MUS 100	Introduction to the World of Music	2			LAS 201 (NA)		
BIO 101	Introduction to the Science of Biology	3			BIO 103 (NA) BIO 111 LAS 103 (NA)	Pass CUNY ACT Reading, Writing and Math, and exit from all Developmental Skills courses	
SPCH 102	Fundamentals of Speech	3					
HIST 101 **or** HIST 102	World Civilization I **or** World Civilization II	3				Pass CUNY ACT Reading, Writing and Math, and exit from all Developmental Skills courses	

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HIST 200 **or** HIST 201	Growth and Development of the USA **or** African American History and Culture	3			HIST 230 HIST 231 HIST 242	ENGL 150	
FS 101	Freshman Seminar I	1			CP 100 (NA)		
FS 102	Freshman Seminar II	1			CP 200 (NA)	FS 101	
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 150	
FREN 101 **or** SPAN 101	Beginning French I **or** Beginning Spanish I	3					FREL 101 **or** SPAL 101
FREN 102 **or** SPAN 102	Beginning French II **or** Beginning Spanish II	3				Pass CUNY ACT Reading, Writing and Math, and exit from all Developmental Skills courses SPAN 101	FREL 102 **or** SPAL 102

CS 151	Introduction to Computing	3				Permission of the Chairperson	MTH 151
PHY 114	Basic Physics	3					MTH 151
Major Requirements							
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 205	Elementary Differential Equations	3				MTH 203 with a grade of C or better	
MTH 206	Introduction to Mathematical Proof	4				MTH 203	
MTH 207	Elementary Linear Algebra	3				MTH 202	
MTH 237	Probability & Statistics	3				MTH 203	
MTH 308 **or** MTH 335	Abstract Algebra I **or** Discrete mathematical structures	3				MTH 202 **or** MTH 207	
MTH 311	Advanced Calculus I	3				MTH 204	
MTH 312	Advanced Calculus II	3				MTH 311	

MTH 309 **or** MTH 345	Abstract Algebra II **or** Mathematical Modeling	3				MTH 308 **or** Permission of the Chairperson	
MTH 315	Complex Variables I	3				MTH 203	
MTH 405	Senior Seminar Capstone Course	1					
CS 252	Assembler Language	4				CS 151 CS 262	
PHY 211	University Physics I	4				PHY 114 MTH 202	
Specialized Course Selections: 9 Credits							
MTH 305	Number Theory	3				MTH 206 **or** Permission of the Chairperson	
MTH 316	Complex Variables II	3				MTH 315	
MTH 325	Modern Differential Geometry	3				MTH 324	
MTH 353	General Topology	3				MTH 206 **or** Permission of the Chairperson	
MTH 359	Graph Theory	3				MTH 309 **or** MTH 335	
MTH 360	Numerical Analysis	3				MTH 203	
MTH 400	Special Topics in Mathematics	3				Permission of the Chairperson	
***Interest Based Electives: 20 Credits**							

MTH 306	Set Theory	3				Permission of the Chairperson	
MTH 320	Vector Analysis	3				Permission of the Chairperson	
MTH 324	Introduction to Differential Geometry	3				MTH 320	
MTH 330	History of Mathematics	3				Permission of the Chairperson	
MTH 332	Tensor Analysis	3				MTH 320	
MTH 337	Probability Theory	3				MTH 237	
MTH 338	Mathematical Statistics	3				MTH 337	
MTH 341	Special Functions of Mathematics	3				MTH 204	
MTH 349	Projective Geometry	3				Permission of the Chairperson	
MTH 350	Transformational Geometry	3				Permission of the Chairperson	
MTH 355	Partial Differential Equations	3				MTH 205	
MTH 358	Differential Geometry and Relativity Theory	3				MTH 204	
MTH 411/412/413	Independent Research	3				Permission of the Chairperson	

***Note: Interest-Based Electives**

A student in the program will confer with his or her departmental advisor before choosing courses in this category. Courses in this category may be additional Mathematics, Physics or Computer Science courses; or Mathematics based courses in Biology, Chemistry, and Economics. A student may also choose to take all 20 credits in appropriate discipline.