

Department of Mathematics: BS - Mathematics Course Sequencing by Semester

	SEMESTER I			SEMESTER III	
Course #	Title	Credits	Course #	Title	Credits
ART 100*	Introducation to World Art	3	HIST 200*	The Growth & Development of the US	3
MTH 202#	Calculus I	4	CS 151	Introduction to Computing	3
ENGL 112*	College Composition I	3	MTH 204	Calculus III	4
FS 101	Freshman Seminar	1	ENGL 212*	World Literature: The Evolving Canon	3
PHY114#	Basic Physics	3	MTH 207	Linear Algebra I	3
SSC 101*	Culture, Society and Social Change	3			
	Total Credits	17		Total Credits	16
	SEMESTER II			SEMESTER IV	
ENGL 150*	College Composition II	3	CRS NMB*	[Socio-Cultural Cluster]	3
PHY/L/W 211#	University Physics I	4	CRS NMB*	[Integrated Knowledge Cluster - Course 1]	3
MUS 100*	Introduction to World Music	3	MTH 205	Elementary Differential Equations	3
MTH 202	Calculus II	4	MTH 206	Intro to Mathematical Proof	4
			MTH 237	Probability and Statistics	3
	Total Credits	14		Total Credits	16
<i>Note: Semester sequencing applies to students with no remediation.</i>					

	SEMESTER V			SEMESTER VII	
Course #	Title	Credits	Course #	Title	Credits
CRS NMB*	[Integrated Knowledge Cluster - Course 2]	3	IB Elective	Interest Based Elective**	3
MTH 308 or MTH 335	Abstract Algebra I or Discrete Mathematical Structures	4	IB Elective	Interest Based Elective**	3
MTH 311	Advanced Calculus I	4	MTH	[Specialized Course Selection 2]***	4
MTH 315	Complex Variables I	4	Elective	Free Elective##	3
	Total Credits	15		Total Credits	13
	SEMESTER VI			SEMESTER VIII	
CRS NMB*	[Integrated Knowledge Cluster - Course 3]	3	Elective	Free Elective##	3
MTH 309 or MTH 345	Abstract Algebra II or Mathematical Modeling	4	MTH	[Specialized Course Selection 3]***	4
MTH 312	Advanced Calculus II	4	Elective	Interest Based Elective**	3
MTH	[Specialized Course Selection 1]***	4	Elective	Interest Based Elective**	3
			MTH 405	Senior Seminar	1
	Total Credits	15		Total Credits	14
				Total Credits Required	120
<i>Notes: Semester sequencing applies to students with no remediation.</i>					
<i>* CUNY Pathway Courses. #STEM variant</i>					
<i>**Students can satisfy the Interest Based Elective component by either: (a) Completing the minor in Computer Science, Physics, Earth System Science, Environmental Science, Space Science, Biology or Chemistry; OR (b) Completing 12 credits from MTH/PHS/PHY/CS 3** or 4**, PHY 212 - University Physics II, PHY 213 - University Physics III, ECON 311 - Mathematical Economics, ECON 474 - Econometrics and Forecasting, ENVS 319 - Geographical Information Systems, ENVS 401 - Ground Water, BIO 461 - Molecular Biology; OR (c) Completing 12 credits in a discipline as approved by the Departmental Advisor and the Chairperson</i>					
## Students who need to take prerequisite courses for MTH 202, like MTH 138 and/or MTH 151 may use Free Elective credits to this effect					
*** <u>Specialized Course Selection</u> Courses can be chosen from MTH 305, MTH 316, MTH 317, MTH 324, MTH 353, MTH 360					