



2016 - 2017 Bethune-Cookman University

Mathematics : Total Semester Hours=120

Freshman Year

First Semester				Second Semester			
EN	131	College English I	3	EN	132	College English II	3
MAT	135	Pre Calculus*	3	MAT	136	Analytical Trigonometry*	3
FC	110	Freshman Seminar I	1	FC	111	Freshman Seminar II	1
HI	130	African American History	3	RELI	110	Understanding Faith	3
PE	113	Health & Wellness	1	CH OR BI	142	General Chemistry II <i>or</i> Principles of Biology II	3
CH OR BI	141	General Chemistry I <i>or</i> Principles of Biology I	3	CHL OR BIL	142	Chemistry Lab II <i>or</i> Principles of Biology Lab II	1
CHL OR BIL	141	Chemistry Lab I <i>OR</i> Principles of Biology Lab I	1				
		Total	15			Total	14

Sophomore Year

First Semester				Second Semester			
FC	280	Sophomore Seminar: Leadership	1	SC	230	Oral Communication	2
		Free Elective	3	HU OR SS	225 245	Interdisciplinary Humanities Interdisciplinary Social Science	3
CH OR BI	141	General Chemistry I <i>OR</i> Principles of Biology I	3	PHIL	230	Ethics	2
CHL OR BIL	141	Chemistry Lab I <i>OR</i> Principles of Biology Lab I	1	CS	231	Computer Programming II	3
CS	230	Computer Programming I	3	CSL	231	Computer Programming II Lab	1
CSL	230	Computer Programming I Lab	1	MAT	242	Calculus II	3
MAT	241	Calculus I	3	MATL	242	Calculus II Lab	1
MATL	241	Calculus I Lab	1				
		Total	16			Total	15

Junior Year

First Semester				Second Semester			
ML	131	Modern Language	3	ML	132	Modern Language	3
ENT	300	Junior Seminar: Entrepreneurship	1	MAT	332	Advanced Calculus	3
MAT	353	Foundations of Mathematics**	3	MAT	334	Differential Equations	3
MAT	331	Calculus III w/ Analytical Geometry	5	MAT	337	Probability and Statistics	3
MAT	335	Linear Algebra	3			Free Elective	3
		Directed Elective	3			Directed Elective	3
		Total	18			Total	18

Senior Year

First Semester				Second Semester			
MAT	361	Numerical Analysis I	3	MAT	432	Abstract Algebra II	3
MAT	431	Abstract Algebra I	3	MAT	434	Real Analysis I	3
MAT	498	Senior Seminar I	3	MAT	437	Complex Variables	3
		Directed Elective	3	MAT	499	Senior Seminar II	3
		Total	12			Total	12

Math majors **MUST** choose a directed field of study as approved by the Mathematics Department (at least 9 credits) in a field complimenting their long range professional goals. Math majors wishing to complete a minor must take at least an additional 6 hours in their directed field of study, based on the requirements of the minor. General Education Courses are in the shaded area.

Math majors must complete the two-semester laboratory science sequence in BI 141 and BI 142, or CH 141 and CH 142, or PH 251 and PH 252. If the PH sequence is chosen, students should move Junior year Modern Language and elective courses to the earlier years and If the Biology or Chemistry sequence is chosen, students should take that sequence in the Freshman year, then the first course of the other in the Sophomore year (for example, Ch 141/142 Freshman year, BI 141 Sophomore year).

*Based on placement

**Or MAT 253 Foundations of Mathematics