

MATHEMATICS CURRICULUM WORKSHEET

EFFECTIVE 2019-2020

Bachelor of Science Degree

Natural and Applied Sciences Department

NAME: _____
 WOLF ID NUMBER: _____
 EMAIL: _____
 PHONE: _____

ADVISOR: _____
 ENTRY TERM: _____
 ANTICIPATED GRADUATION TERM: _____
 DATE LAST UPDATED: _____

GENERAL EDUCATION

COURSE NUMBER	COURSE NAME	CR	Sem	Grade
I. CORE REQUIREMENTS (22 CREDITS)				
Essential Skills (9 Credits)				
HEN 112	English I ©	3		
HEN 113	English II ©	3		
HEN 114	Speech	3		
Critical Skills (3 Credits)				
EDU110	Introductory Interpretation & Analysis			
OR				
HPH110	Critical Thinking			
Mathematics (3 credits) ©±				
MAT160	Calculus I ©±	4		
Health & Wellness (2 credits)				
REC 111	Health & Wellness	2		
African-American Experience (3 credits)				
AAS210	A-A Experience in a Global Context	3		
Freshmen Experience (2 credits)				
GAC 101	Freshmen Seminar I	1		
GAC 102	Freshman Seminar II	1		
II. DISTRIBUTION REQUIREMENTS (19 CREDITS; CANNOT BE IN MAJOR)				
Humanities (6 credits ¶)*				
	Humanities Elective I	3		
	Humanities Elective II	3		
*Satisfactory courses include graphic design, literature, language, theater, music, arts, & philosophy.				
Social Sciences (6 credits ¶)***				
	Social Science Elective I	3		
	Social Science Elective II	3		
***Courses include anthropology, economics, geography, history, political science, psychology & sociology.				
Natural Sciences (6 credits or higher)®				
SPY 315	Physics I (Calculus)	4		
SPY 316	Physics II (Calculus)	4		
®Satisfactory courses include biology, chemistry, physics, earth or space science.				
Health & Wellness (1 credit)				
REC ____	Physical Education	1		
TOTAL CREDITS IN GENERAL EDUCATION		44		

A 2.0 overall cumulative GPA is required for graduation.

III. INTENSIVE COURSES (May be from major or free electives)	CR	Sem	Grade
_____ Writing Course (W)			
_____ Writing Course (W)			
_____ A-A Heritage Course (A)			
_____ Information Literacy Course (I)			
_____ Global Course (G)			

©This course requires completion of the prerequisite with a C or higher.

¶Courses superimposed on this distribution requirement must be included in Required Major Credits; max 42 or 60

±This course may have one or more prerequisites that students must display proficiency in through successful completion of the prerequisite course(s).

MAJOR COURSES

COURSE NUMBER	COURSE NAME	CR	Sem	Grade
REQUIRED MAJOR COURSES (up to 42 credits)++				
MAT 270	Calculus II <>	4		
MAT 301	Calculus III <>++	4		
MAT 202	Discrete Math <>	3		
MAT 313	Linear Algebra I <>++	3		
MAT 321	Differential Equations <>++	3		
MAT 325	Probability and Statistics <>++	3		
MAT 352	Intro to Abstract Algebra <>++	3		
MAT 335	Elementary Number Theory <>++	3		
MAT 355	Statistics II <>++	3		
MAT 401	Intro to Real Analysis <>++	3		
Total Required Major Core Courses		32		
ADVANCED ELECTIVES (9 credits)				
MAT 403	Linear Algebra II <>	3		
MAT 331	Numerical Analysis <>	3		
MAT 362	Modern Geometry <>+	3		
MAT 411	Intro to Complete Variables <>	3		
MAT 451	Introduction to Topology <>	3		
MAT 360	History of Mathematics <>	3		
MAT 361	Applied Mathematics <>	3		
MAT 499	Independent Study <>	3		
Total Electives		9		
REQUIRED PROGRAMMING CLASSES (6 Credits)				
CIS 101	Computer Programming I <>	3		
CIS 213	Interactive Computer Programming <>	3		
Total Required Programming Credits		6		
TOTAL MAJOR CREDITS		47		
FREE ELECTIVES+ (count to get to at least 120 credits)++				
_____	Free Elective 1	4		
_____	Free Elective 2	4		
_____	Free Elective 3	4		
_____	Free Elective 4	4		
_____	Free Elective 5	4		
_____	Free Elective 6	3		
_____	Free Elective 7	3		
_____	Free Elective 8	3		
TOTAL FREE ELECTIVE CREDITS		29		
TOTAL CREDITS FOR GRADUATION		120		

Special Notations for student:

Indicate here if any additional preparatory or skill building courses are needed specifically for this student++:	CR	Sem	Grade

+PASSHE Policy 1990-06-A holds that elective course selection is encouraged.

++PASSHE Policy 1990-06-A holds that 42 credits of the total 120 must be upper level courses.

+++Credits earned for developmental/remedial courses do not count towards the 120 credits required for graduation.

©Courses listed with a diamond are used to calculate major gpa.