Kansas Wesleyan University   Department: Mathematics and Physics   Check Sheet
Four Year Plan   Major: Mathematics

Student Name: _____

		Major Requirements (See back of this sheet. Prerequisites in parentheses.)				
Course Prefix	**Course Number**	**Major Requirements** *(Pre-Requisite)*	**Liberal Studies**	**Req. Hours**	**Semester & Term Taught**	**Earned Hours**
COMP	131 /235 /331	Foundations of Computer Science Or Python Programming Or Programming in C++		3	Varies	
MATH	145	Calculus I *(Knowledge of Math120 & Math121, or Math ACT 19+)*		4	Fall	
MATH	225	Linear Algebra *(Math 105/120 or consent of instructor.)*		3	Spring Even	
MATH	243	Discrete Mathematics *(Math 105/120 or consent of instructor.)*		3	Fall Even	
MATH	245	Calculus II *(Math 145)*		4	Spring	
MATH	246	Calculus III *(Math 245)*		4	Fall	
MATH	299	Mathematical Modeling Seminar		2	Yearly	
MATH	310	Elementary Differential Equations *(Math 246)*		3	Spring Even	
MATH	323	Intro to Mathematical Statistics *(Math 246)*		3	Spring Odd	
MATH	327	Modern Applied Algebra *(Math 245)*		3	Fall Odd	
MATH	425	Real Analysis *(Math 245)*		3	Fall Even	
****	***	Mathematics Intensive Elective		3-5		
****	***	Mathematics Intensive Elective		3-5		
****	***	Mathematics Intensive Elective		3-5		
			Total Major Hours:	**44-50**		

DEGREE REQUIREMENTS			
BACHELOR OF Arts:			
Liberal Studies (40 hours)	**36**		
ELECTIVES:	**34-40**		
TOTAL GRADUATION HOURS:	**120**		

SUGGESTED SEQUENCE: Starting Odd Year
Major: Mathematics

FALL OF YEAR ONE		
Math145	Calculus I	4
Comp131	Foundations of Comp. Sys.	3
Engl120	Intro Engl Comp (Recommended)	3
	+Liberal Studies Total	15

SPRING OF YEAR ONE		
Math245	Calculus II	4
Math225	Linear Algebra	3
Engl121	Intermediate English Comp. (Recommended	3
	+Liberal Studies Total	15

FALL OF YEAR TWO		
Math245	Calculus III	4
Math243	Discrete Math	3
Phys 221/L	University Physics I (Recommended)	4
	+Liberal Studies Total	15

SPRING OF YEAR TWO		
Math222	Modern Geometry (Elective)	3
Math323	Intro to Math Stats	3
Phys 222/L	University Physics II (Recommended)	4
	+Liberal Studies Total	15

FALL OF YEAR THREE		
Math327	Modern Algebra	3
Math299	Modeling Seminar	1
	+Liberal Studies Total	15

SPRING OF YEAR THREE		
Math310	Differential Equations	3
	Math Elective	3-4
	+Liberal Studies Total	15

FALL OF YEAR FOUR		
Math425	Real Analysis	3
	+Liberal Studies Total	15

SPRING OF YEAR FOUR		
	Math Elective	3-4
Math299	Modeling Seminar	1
	+Liberal Studies Total	15

Total Hours = 120

Foundational Courses					
Requirement	Division	Number	Credit	Grade	Semester/ Year
Wesleyan Experience: (Required only for first-time freshmen)	Interdivisional	INTD 105	2		Fall (First 8 weeks)
Wesleyan Heritage	Interdivisional	INTD 115	1		
Quantitative Reasoning:			3-4		
Writing-Intensive: Must be completed in a student's freshman year.	Humanities	ENGL 120	3		
Writing-Intensive at the 200-level or below: (Such as ENGL 121)			3		
Total Hours of Foundational Courses: 12					
Liberal Studies Program: **Four different divisions must be represented on the check sheet to complete the Liberal Studies Program at Kansas Wesleyan University**					
Personal Awareness:					
Personal Awareness:					
Human Expression:					
Human Expression:					
Community and World Exploration:					
Community and World Exploration:					
Natural World Stewardship:					
Natural World Stewardship:					
Total Hours in Liberal Studies: 24					
Total Hours to Complete Foundational Courses and Liberal Studies: 36					

Math Course Interdependence

Solid colors denote required classes; blue for classes usually taken before college, green for classes which are part of the standard college curriculum. Yellow indicates classes you may or may not take, depending on your major and choices. Solid lines denote absolute requirements; dashed lines indicate recommended but not required sequences.

Math 120
College Algebra

Math 121
Precalculus

Math 145
Calculus I

Math 245
Calculus II

Math 246
Calculus III

Math 243
Discrete Math

Math 222
Modern Geometry

Math 210
Elementary Stats

Math 225
Linear Algebra

Math 323
Math Stats

Math 310
Differential Equations

Math 425
Real Analysis

Math 327
Modern Algebra