

**Bachelor of Science in Math: Pure Math emphasis  
Worksheet & Pre-Requisites — 2013-14**

Course #	Course title	Cr	Of'rd	Pre-Requisites
<b>MATH CORE</b>				
MATH 1220	Calculus II	4	F/S	"C" in MATH 1210 or <u>AP Calculus</u>
MATH 2210	Calculus III	4	F/S	"C" in MATH 1220
MATH 2270	Linear Algebra	3	F/S	MATH 1220
MATH 2280	Differential Equations	3	S	MATH 1220 & MATH 2270%
MATH 3120	Transition to Advanced Mathematics	3	S	MATH 1220 & MATH 2270
MATH 3700	Probability & Statistics	4	F	MATH 1220
MATH 4220	Abstract Algebra I	3	F	MATH 3120
MATH 4400	Advanced Calculus I	3	F	MATH 2210, 3120 & 2270
MATH 4580	Complex Analysis	3	S odd	MATH 2210
<b>One of the following</b>				
MATH 4230	Abstract Algebra II	3	S-even	MATH 4220
MATH 4410	Advanced Calculus II		S-odd	MATH 4400
<b>One of the following</b>				
CSIS 1400	Fundamentals of Programming	3	F/S	C in MATH 1010 or ACT of 23
CSIS 1410	Object Oriented Programming		F/S	CSIS 1400
<b>Math Electives (15 credits)</b>				
CSIS 3550 or any upper div Math except 3140 or 4900		15		
<b>Up Div ELECTIVES</b>				
	To Total 40	4		
<b>FREE ELECTIVES</b>				
	To total 120			
<b>PROGRAM PREREQUISITES</b>				
MATH 1050	College Algebra	4	F/S/M	"C" in MATH 1010 or <u>ACT of 23</u>
MATH 1060	Trigonometry	3	F/S/M	"C" in MATH 1010 or <u>ACT of 23</u>
<b>University Requirement</b>				
UNIV 1010	Introduction to Experiential Education	1		
UNIV 3925	EER Proposal	1		
UNIV 4925	Synthesis and Reflection	1		
<b>GENERAL EDUCATION</b>				
ENGL 1010	Intro to Academic Writing	3	F/S	
ENGL 2010	Intermediate Writing	3	F/S	
<b>MATH 1210</b>	<b>Calculus I</b>	4	F/S/M	"C" in MATH 1050/60
LM 1010	Information Literacy	1	F/S	
American Institution		3	F/S	
CSIS 1000	Intro to Computer Applications & Internet	3	F/S/M	
FINE ARTS:		3		
HUMANITIES:		3		
SOCIAL SCI:		3		
LIFE SCIENCE		3		
<b>PHYS SCI: PHYS 2210/15*</b>	<b>Physics for Scientists &amp; Engineers I/lab</b>	4	F/S	MATH 1210
<b>*(Strongly Recommended)</b>				

% Can take 2270 & 2280 concurrently