

**Bachelor of Science in Math: Pure Math emphasis
Worksheet & Pre-Requisites — 2015-16**

Course #	Course title	Cr	Of'rd	Pre-Requisites
MATH CORE				
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
One of the following				
MATH 4230	Abstract Algebra II	3	S-even	MATH 4220
MATH 4410	Advanced Calculus II		S-odd	MATH 4400
One of the following				
CSIS 1400	Fundamentals of Programming	3	F/S	C in MATH 1050
CSIS 1410	Object Oriented Programming		F/S	CSIS 1400
Math Electives (15 credits)				
CSIS 3550 or any upper div Math except 3140 or 4900		15		
Up Div ELECTIVES				
To Total 40		4		
FREE ELECTIVES				
To total 120				
PROGRAM PREREQUISITES				
MATH 1050	College Algebra	4	F/S/Su	C in MATH 1010 or <u>ACT of 23</u>
MATH 1060	Trigonometry	3	F/S/Su	C in MATH 1010 or <u>ACT of 23</u>
University Requirement				
UNIV 1010	EDGE Program Introduction	1	F/S/Su	
UNIV 3925	EDGE Project Proposal	1	F/S/Su	UNIV 1010
UNIV 4925 or UNIV 4930	EDGE Program Completion/Select Track Completion	1	F/S/Su	UNIV 3925
GENERAL EDUCATION				
ENGL 1010	Intro to Academic Writing	3	F/S/Su	
ENGL 2010	Intermediate Writing	3	F/S/Su	
MATH 1210	Calculus I	4	F/S/Su	C in MATH 1050/60
LM 1010	Information Literacy	1	F/S/Su	
American Institution		3	F/S/Su	
CSIS 1000	Intro to Computer Applications & Internet	3	F/S/Su	
FINE ARTS:		3	F/S/Su	
HUMANITIES:		3	F/S/Su	
SOCIAL SCI:		3	F/S/Su	
LIFE SCIENCE		3	F/S/Su	
PHYS SCI: PHYS 2210/15*	Physics for Scientists & Engineers I/lab	4	F/S	MATH 1210
*(Strongly Recommended)				36 UD in Major including EDGE

% Can take 2270 & 2280 concurrently