

MATHEMATICS CHECKSHEET

Department of Mathematics and Computer Science

Name: _____ **Degree:** B.S.

Date Entered: _____

Projected Graduation Date: _____

Chairperson: _____

Graduation Requirements: 120 Semester Hours

Advisor: _____

MAJOR REQUIREMENTS

GENERAL EDUCATION

COURSE DESCRIPTION	HRS	GRD	Sem/YR
MATHEMATICS REQUIREMENTS (43 hrs.)			
MTH2502 Calculus I	4		
MTH2503 Calculus II	5		
MTH2001 Probability & Statistics I	3		
MTH2002 Probability & Statistics II	3		
MTH2540 Foundations in Mathematics	3		
MTH3001 Linear Algebra	3		
MTH3002 Calculus III	4		
MTH3110 Differential Equations	4		
MTH3520 Abstract Algebra I	3		
MTH3521 Abstract Algebra II	3		
MTH3530 Scientific Writing and Research	2		
MTH4120 Introduction to Real Analysis	3		
MTH4600 Capstone: Sele. Top. in Math.	3		
TOTAL	43		

COURSE DESCRIPTION	HRS	GRD	Sem/YR
GENERAL EDUCATION REQUIREMENTS (min. 39 hrs.)			
MARAUDER FOUNDATION (min. 36 hrs.)			
CORE COURSES (min. 10 hrs.)			
Effective Communication, Critical Thinking			
ENG1100 Intro. to Writing or	5		
ENG1101 Intro. College Writing	4		
Quantitative & Scientific Reasoning, Critical Thinking			
MTH1750 College Algebra or	3		
STEM Math option	3-5		
Awareness of Role of Social & Cultural Values, Critical Thinking (SCV)			
HIS1110 AfroAm History or	3		
HIS1121 Global History I or	3		
HIS1122 Global History II or	3		
PSY 1200 Intro. to Psychology or	3		
SOC 1105 Intro. Sociology	3		

COMPUTER SCIENCE REQUIREMENTS (8 hrs.)

COURSE DESCRIPTION	HRS	GRD	Sem/YR
CPS1191 Computer Science I	4		
CPS1192 Computer Science II	4		

If a course listed above is not used to satisfy the SCV core, it may be counted toward Bridge hours. The student must take at least ONE history course as part of either the Core or Bridge.

MATHEMATICS ELECTIVES (6 hrs. min)

COURSE DESCRIPTION	HRS	GRD	Sem/YR
MTH3310 Numerical Methods	3		
MTH3430 Operations Research	3		
MTH3610 Intro. to Discrete Structures	3		
MTH4030 History of Mathematics	3		
MTH4730 Functions of a Complex Variable	3		

BRIDGE COURSES (min. 26 hrs.)

COURSE DESCRIPTION	HRS	GRD	Sem/YR
Effective Communication, Critical Thinking			
ENG1102 Writing & Res/Essay	4		
Awareness of Role of Social & Cultural Values, Critical Thinking			
List B: 3-6 credits Humanities**			
List C: 3-6 credits Social Science**			
Quantitative & Scientific Reasoning, Critical Thinking			
List D: 6 credits Natural and Physical Sciences			
PHY 2411	5		

ELECTIVES (To meet min 120 hrs.)

COURSE DESCRIPTION	HRS	GRD	Sem/YR

Additional Cr. Hrs. from List B, C, D or STEM options to meet the minimum combined Core/Bridge hours 36.

THE MARAUDER LIFESTYLE (3 Credits)

COURSE DESCRIPTION	HRS	GRD	Sem/YR
Wellness and Lifestyle Choices 3 Cr. Hrs.			
USS 1000	2		
HHP Activity (1 course from List A)	1		

Mathematics Minor:

MTH 27 hrs: MTH2502,MTH2503,MTH3001, MTH3002, MTH3110, CPS1191, and one additional mathematics elective

***Six total credits in humanities (List B), including at least 3 credits chosen from His 1110, 1121 or 1122 and six total credits in social science in two disciplines (List C) are required. The six required humanities credits and six required social science credits may be completed through a combination of Core and/or Bridge courses.*