



MATHEMATICAL SCIENCE B.S. DEGREE PLANNING SHEET

T-Transfer Credit
M-Maryville Credit

Student Name _____

I.D.# _____

Registrar Signature: _____

GENERAL EDUCATION (Minimum 47 Credits)	M	T	MATHEMATICS REQUIRED COURSES (34 Credits)	M	T
I. LITERACY (5 courses)			MATH 251 Calculus III (4)		
INTD 101-University Seminar (Required for Freshmen)			MATH 300 Algebraic Structure and Proofs (3)		
ENGL 101 Writing I: The Writing Process (3)			MATH 312 Number Theory with Applications (3)		
ENGL 104 Writing II: Research & Argumentative (3)			MATH 316 Applied Linear Algebra (3)		
SPCH 110 Oral Communication (3)			MATH 320 Applied Differential Equations (3)		
MATH 151 Calculus I (4)			MATH 370 Probability I (3)		
II. HUMANITIES (5 courses)			MATH 371 Probability II (3)		
A. Fine Arts (1 course)			MATH 372 Mathematical Statistics (3)		
Art, Music, Performance, Aesthetics			MATH 430 Fundamental Analysis (3)		
B. Literature/Language (1 course)			MATH 460 Optimization (3)		
ENGL or Foreign Language			MATH 470 Introduction to Abstract Algebra (3)		
C. Philosophy (1 course)			DATA SCIENCE MINOR COURSES- Required (18 Credits)		
D. Humanities Electives (2 courses)			DSCI 200 Foundations of Data Science (3)		
ENGL, The Arts/Aesthetics, Foreign Language,			DSCI 201 Math Modeling -Excel (3)		
HUM, PHIL, REL			DSCI 302 Introduction to R (3)		
III. MATH/SCIENCE (2 courses)			DSCI 303 Introduction to Python (3)		
BIOL, CHEM, PHYS, SCI (1 course)			DSCI 304 Introduction to SQL (3)		
MATH 152 Calculus II			DSCI 408 Machine Learning (3)		
IV. SOCIAL SCIENCE (3 courses)			MATHEMATICS ELECTIVE COURSES		
Amer. History or Government			MATH 311 Discrete Mathematics (3)		
Electives (at least 2 disciplines)			MATH 330 College Geometry (3)		
HIST, PSCI, PSYC, SOC, COMM			MATH 351 Advanced Calculus (3)		
			MATH 397/497 Special Study (3)		
			MATH 405 Statistical Modeling I (3)		
			MATH 406 Statistical Modeling II (3)		
			MATH 420 Statistics for Science Research (3)		
TOTAL CREDITS =128			MATH 450 Matrix Applications (3)		
2.00 GPA or Higher			DSCI 301 Math Modeling-VBA (3)		
60 hours at 4-year institution(s)			DSCI 307 SAS Programming (3)		
Last 30 hours at Maryville			DSCI 318 Experimental Design (3)		
½ of the major at Maryville			DSCI 412 Predictive Modeling (3)		
			DSCI 417 Big Data Analysis (3)		
			DSCI 419 Deep Learning (3)		
			ACSC 299/399/499 Internship (3)		
			OTHER ELECTIVES TO MEET THE REQUIRED TOTAL 128 CREDITS		