



MATHEMATICAL SCIENCE B.S. DEGREE PLANNINGSHEET

T-Transfer Credit
M-Maryville Credit

Student Name _____

I.D.# _____

Registrar Signature: _____

GENERAL EDUCATION (Minimum 47 Credits)	M	T	MATHEMATICS CORE COURSES (Required 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 from DSCI)		
D. Humanities Electives (2 courses)			RECOMMENDED COURSES		
ENGL, The Arts/Aesthetics, Foreign Language,			DSCI 200 Foundations of Data Science (3)		
HUM, PHIL, REL			DSCI 201 Math Modeling -Excel (3)		
III. MATH/SCIENCE (2 courses)			DSCI 302 Introduction to R (3)		
BIOL, CHEM, PHYS, SCI (1 course)			DSCI 303 Introduction to Python (3)		
MATH 152 Calculus II			DSCI 304 Introduction to SQL (3)		
IV. SOCIAL SCIENCE (3 courses)			DSCI 408 Machine Learning (3)		
Amer. History or Government			MATH 311 Discrete Mathematics (3)		
Electives (at least 2 disciplines)			MATH 330 College Geometry (3)		
HIST, PSCI, PSYC, SOC, COMM, ECON			MATH 397/497 Special Studies (3)		
			MATH 405 Statistical Modeling I (3)		
			MATH 420 Experimental Design for Life Sciences (3) (on ground only)		
			DSCI 301 Math Modeling-VBA (3)		
			DSCI 307 SAS Programming (3)		
TOTAL CREDITS =128			DSCI 318 Experimental Design (3)		
2.00 GPA or Higher			DSCI 412 Predictive Modeling (3)		
60 hours at 4-year institution(s)			DSCI 417 Big Data Analysis (3)		
Last 30 hours at Maryville			DSCI 419 Deep Learning (3)		
½ of the major at Maryville			ACSC 299/399/499 Internship (3)		
			COSC 140 Introduction to Blockchain (3)		
			COSC 150 - Introduction to Java Programming (3)		
			COSC 151 - Computer Science I (3)		
			COSC 220 - Database Design (3)		
			COSC 350 - Data Structures and Algorithms (3)		