

Student Name _____

_I.D.# _____

Registrar Signature: _____

GENERAL EDUCATION (Minimum 47 Credits)	M	T	DATA SCIENCE MAJOR COURSES (46 Credits)	M	T
I. LITERACY (5 courses)			DSCI 200 Foundations of Data Science (3)		
INTD 101-University Seminar (Required for Freshmen)			DSCI 201 Math Modeling -Excel (3)		
ENGL 101 Writing I: The Writing Process (3)			MATH 251 Calculus III (4)		
ENGL 104 Writing II: Research & Argumentative (3)			DSCI 302 Introduction to R (3)		
SPCH 110 Oral Communication (3)			DSCI 303 Introduction to Python (3)		
MATH 151 Calculus I (4)			DSCI 304 Introduction to SQL (3)		
II. HUMANITIES (5 courses)			DSCI 307 SAS Programming (3)		
A. Fine Arts (1 course)			MATH 316 Applied Linear Algebra (3)		
Art, Music, Performance, Aesthetics			DSCI 318 Experimental Design (3)		
B. Literature/Language (1 course)			MATH 370 Probability I (3)		
ENGL or Foreign Language			MATH 371 Probability II (3)		
C. Philosophy (1 course)			MATH 372 Mathematical Statistics (3)		
D. Humanities Electives (2 courses)			DSCI 408 Machine Learning (3)		
ENGL, The Arts/Aesthetics, Foreign Language,			DSCI 412 Predictive Modeling (3)		
HUM, PHIL, REL			DSCI 417 Big Data Analytics (3)		
III. MATH/SCIENCE (2 courses)			DATA SCIENCE RECOMMENDED ELECTIVES		
BIOL, CHEM, PHYS, SCI (1 course)			DSCI 301 Math Modeling –VBA (3)		
MATH 152 Calculus II			DSCI 314 Natural Language Processing (3)		
IV. SOCIAL SCIENCE (3 courses)			DSCI 324 Data Visualization (3)		
Amer. History or Government			DSCI 340 Sports Analytics (3)		
Electives (at least 2 disciplines)			DSCI 419 Deep Learning (3)		
HIST, PSCI, PSYC, SOC, COMM, ECON			DSCI 498 Capstone Project (3)		
BUSINESS MINOR-RECOMMENDED			COSC 140 Introduction to Blockchain (3)		
ACCT 210 Financial Accounting (3)			COSC 150 - Introduction to Java Programming (3)		
ACCT 211 Managerial Accounting (3)			COSC 151 - Computer Science I (3)		
ECON 203 – Principles of Economics (3)			COSC 220 - Database Design (3)		
FIN 312 Principles of Finance (3)			COSC 350 - Data Structures and Algorithms (3)		
MGMT 321 Principles of Management (3)			COSC 421 Introduction to Robotics (3)		
MKT 360 Principles of Marketing (3)			MATH 311 Discrete Mathematics (3)		
CONCENTRATION IN ACTUARIAL SCIENCE			MATH 405 Statistical Modeling I (3)		
MATH 370, 371, ACSC 394, 414, 415, 495			MATH 460 Optimization (3)		
			ACSC 299/399/499 Internship (3)		

REMARKS: 60 hours at 4-year institution(s); ½ of the major at Maryville; Last 30 hours at Maryville; Total credits =128

ACSC 394 Actuarial Seminar I, ACSC 414 Theory of Interest, ACSC 415 Financial Math I, ACSC 495 Actuarial Seminar II