

Student Name _____ I.D.# _____ Registrar Signature: _____

GENERAL EDUCATION (Minimum of 47 Credits)	M/T	COSC PROGRAM CORE (8 courses)	M/T	DATA SCIENCE TRACK	M/T
I. LITERACY (5 courses)		COSC 130 Intro to Programming (3)		DSCI 303 Intro to Python (3)	
A. INTD 101 Univ. Seminar		COSC 150 Intro to Java Programming (3)		DSCI 408 Machine Learning (3)	
B. ENGL 101 Writing Across Disciplines I (3)		COSC 151 Computer Science I (3)		DSCI 417 Big Data Analytics (3)	
C. ENGL 104 Writing Across Disciplines II (3)		COSC 220 Database Design (3)		Any three of the following courses:	
D. SPCH 110 Oral Communication (3)		COSC 231 Project Management (3)		DSCI 302 Introduction to R (3)	
E. MATH 117, MATH 125, or MATH 151 (3 or 4)		COSC 350 Data Structures and Alg. (3)		DSCI 304 Introduction to SQL (3)	
II. HUMANITIES (5 courses)		COSC 360 Operating Systems (3)		DSCI 314 Natural Language Processing (3)	
A. Fine Arts Art, Music, Performance, Aesthetics		COSC 498 Capstone Project (3)		DSCI 419 Deep Learning (3)	
B. Literature/Language ENGL or Foreign Language		SOFTWARE DEVELOPMENT TRACK		BLOCKCHAIN TRACK	
C. Philosophy PHIL		SWDV 220 Comp Sys and Prog Lang (3)		COSC 140 Introduction to Blockchain (3)	
D. Humanities Electives (1st of 2 required) Fine Arts, ENGL, HUM, PHIL, REL, Lang		SWDV 226 Software Dev Methods & Tools (3)		COSC 290 Blockchain Networks (3)	
E. Humanities Electives (2nd of 2 required) Fine Arts, ENGL, HUM, PHIL, REL, Lang		SWDV 420 Foundations of Web App Dev (3)		COSC 305 Blockchain Cryptocurrencies (3)	
III. MATH/SCIENCE (2 courses)		SWDV 430 Object Oriented Design (3)		COSC 315 Ethics of Blockchain (3)	
A. Science Elective BIOL, CHEM, PHYS, SCI		SWDV 460 DevOps (3)		COSC 375 Applications of Blockchain (3)	
B. MATH 311 Discrete Mathematics (3)		SWDV 497 Special Topics in Adv Tech (3)		COSC 497 Special Topics in Blockchain (3)	
IV. SOCIAL SCIENCE (3 courses)		CYBER SECURITY TRACK		ARTIFICIAL INTELLIGENCE TRACK	
A. American History or Government		ISYS 280 Cyber Security Principles (3)		COSC 435 Reinforcement Learning (3)	
B. Social Science Elective (1st of 2 required) HIST, PSCI, PSYC, SOC		ISYS 470 Ethical Hacking (3)		DSCI 303 Intro to Python (3)	
C. Social Science Elective (1st of 2 required) Must be different discipline from IV.B.		ISYS 474 Networks and Security (3)		DSCI 408 Machine Learning (3)	
ADDITIONAL REQUIREMENTS		ISYS 481 Virtualization and Cloud Sec (3)		DSCI 419 Deep Learning (3)	
1. The COSC core must be completed.		ISYS 484 Digital Forensics (3)		Any two of the following courses:	
2. At least one of the six COSC tracks must be completed.		ISYS 485 Incident Response (3)		COSC 421 Intro to Robotics (3)	
3. An additional 18 hours of COSC elective courses must be completed. It is recommended to use these courses to complete a second track.		USER EXPERIENCE TRACK		COSC 423 Computer Vision (3)	
4. 128 hours must be completed.		ISYS 120 Storyboarding Apps (3)		DSCI 314 Natural Language Processing (3)	
5. 60 hours must be completed at a 4-year institution.		ISYS 220 App Development for iOS (3)		MATH 316 Applied Linear Algebra (3)	
6. At least half of program requirements and the final 30 hours must be completed at Maryville.		ADGD 265 Intro to Digital Media (3)		ADDITIONAL COSC ELECTIVES	
		ADDM 200 Designing for Meaning (3)		MATH 151 Calculus I	
		ADGD 310 Web Design I (3)		MATH 152 Calculus II	
		ADIN 450 UX/UI Design (3)			