Requirements of the Computer and Mathematical Sciences Secondary Education Concentration Required Computer Science Courses
CIS 377 Information Systems Security ..... 3
COSC 109 Computers and Creativity (Core 4) ..... 3
COSC $236^{1}$ Introduction to Computer Science I ..... 4
COSC 237 Introduction to Computer Science II ..... 4
COSC 336 Data Structures and Algorithm Analysis ..... 4
COSC 412 Software Engineering ..... 3
COSC 418 Ethical and Societal Concerns CS (Core 14) ..... 3
COSC 482 Teaching Computer Science in Secondary Schools ..... 3
COSC 492 Internship Secondary Education-Computer Science ..... 6
ITEC 250 Fundamentals of Computer Networks ..... 3
Required Mathematics Courses
MATH 265 Elementary Linear Algebra ..... 4
MATH 267 Introduction to Abstract Mathematics ..... 4
or MATH 263 Discrete Math ..... 3
MATH 273 Calculus I (Core 3) ..... 4
MATH 274 Calculus II ..... 4
MATH 275 Calculus III ..... 4
MATH 310 Functions and Modeling (Core 9) ..... 3
MATH 330 Introduction to Statistical Methods ..... 4
MATH 353 Euclidean and Non-Euclidean Geometry ..... 3
MATH 423 Teaching Mathematics in the Secondary Schools ..... 3
MATH 426 Internship Secondary Education - Mathematics ..... 6
Required Education Courses
SEMS 110 Intro to STEM Teaching I ..... 1
SEMS 120 Intro to STEM Teaching II ..... 1
SEMS 230 Knowing \& Learning ..... 3
SEMS 240 Classroom Interactions ..... 3
SEMS 250 Perspectives in Science and Mathematics (Core 5) ..... 3
SEMS 370 Project-Based Instruction ..... 3
SEMS 498 Intern. Math and Science Secondary Education ..... 3
SEMS 430 Seminar in STEM Education ..... 1
SCED 460 Using Reading \& Writing in the Secondary Schools ..... 4
SCED 461 Teaching Reading in the Secondary Content Areas ..... 3
Additional Courses Needed to Satisfy the Core Curriculum
(Core Curriculum Categories 1, 2, 6, 7, 8, 10, 11, 12, 13) ..... 28
Total Credit Count ..... 127

