Rules for Mathematics and Science Electives

Math/Science Electives (17 Hours)

1. One of the following 2-semester sequences must be included:
   - BIOL 198 and 401 (9 Hours)
   - CHM 210 and 230 (8 Hours)
   - PHYS 213 and 214 (10 Hours)
   - PHYS 223 and 224 (10 Hours)

2. Four additional credits in science or math courses.

3. One of the following mathematics courses must be included:
   - MATH 222 Analytic Geometry and Calculus III (4)
   - MATH 340 Elementary Differential Equations (4)
   - MATH 506 Introduction to Number Theory (3)
   - MATH 511 Introduction to Algebraic Systems (3)
   - MATH 512 Introduction to Modern Algebra (3)
   - MATH 515 Introduction to Linear Algebra (3)
   - MATH 551 Applied Matrix Theory (3)
   - MATH 572 Foundations of Geometry (3)
   - MATH 633 Advanced Calculus I (3)
   - PHYS 113 General Physics (4)
   - PHYS 213 Engineering Physics I (5)
   - PHYS 223 Physics I, Mechanics, & Thermodynamics (5)
   - PHYS 114 General Physics II (4)
   - PHYS 214 Engineering Physics II (5)
   - PHYS 224 Physics II, Electromagnetism, and Sound (5)
   - PHYS 325 Physics III, Relativity, and Quantum Physics (4)
   - STAT 511 Introductory Probability and Statistics II (3)

4. All remaining hours, choose from the following:
   - BIOCH 625 Introductory Organic & Biochemistry (5)
   - BIOCH 521 General Biochemistry (3)
   - BIOL 198 Principles of Biology (4)
   - BIOL 201 Organismic Biology (5)
   - BIOL 450 Modern Genetics (4)
   - BIOL 455 General Microbiology (4)
   - CHM 210 Chemistry I (4)
   - CHM 230 Chemistry II (4)
   - CHM 350 General Organic Chemistry (3)
   - CHM 531 Organic Chemistry I (3)
   - CHM 371 Chemical Analysis (4)
   - CHM 550 Organic Chemistry II (3)
   - GEOL 100 Earth in Action (3)
   - GEOL 102 Earth in Time (3)
   - GEOL 103 Geology Laboratory (1)
   - GEOL 502 Mineralogy (3)

5. Options:
   - COMM 322 Interpersonal Communications (3)
   - COMM 326 Small Group Discussion Methods (3)
   - MANGT 420 Principles of Management (3)
   - THTRE 261 Fundamentals of Acting (3)
   - THTRE 265 Fundamentals of Improvisation (3)

Communications Elective Choices

Cyber Security Tech Electives

6. Additional Cybersecurity Courses: 12 Hours
   - CIS 551 Fundamentals of Computer and Information Security (3)
   - CIS 553 Fundamentals of Cryptography (3)

6 hours of additional coursework from:
   - CIS 525 Introduction to Network Programming (3)
   - CIS 655 Security and Reliability of Computing Systems (3)
   - CIS 755 Systems Security (3)

Required Electives: 3 Hours
   Either CIS 520 Operating Systems I or CIS 625 Parallel Programming (3)

Humanities/Social Science Electives

Aesthetic Experience & Interpretive Understanding

Suggestions:
   - ARCH 301 Appreciation of Architecture (3)
   - COMM 323 Nonverbal Communication (3)
   - ENGL 270 American Literature (3)
   - GWSS 350 Gender in American Film (3)
   - GWSS 550 Women and Popular Culture (3)
   - MUSIC 170 History of Rock and Roll (3)