Rules for Mathematics and Science Electives

Math/Science Electives (17 Hours)

1. One of the following 2-semester sequences must be included:
   - BIOL 201 and 201 (9 Hours)
   - CHM 210 and 230 (8 Hours)
   - PHYS 213 and 214 (10 Hours)
   - PHYS 213 and 222 (10 Hours)

2. One of the following mathematics courses must be included:
   - MATH 221 Analytic Geometry and Calculus III (4)
   - MATH 340 Elementary Differential Equations (4)
   - MATH 505 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 517 Applied Matrix Theory (3)
   - MATH 572 Foundations of Geometry (3)
   - MATH 633 Advanced Calculus I (3)
   - STAT 511 Introductory Probability and Statistics II (3)

All remaining hours, choose from the following:

- BIOCH 625 Introductory Organic & Biochemistry (5)
- BIOCH 652 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)
- MATH 222 Analytic Geometry and Calculus III (4)
- MATH 340 Elementary Differential Equations (4)
- MATH 505 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 517 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)

Communications Elective Choices

- COMM 322 Interpersonal Communications (3)
- COMM 326 Small Group Discussion Methods (3)
- MANGT 420 Principles of Management (3)
- THTRE 262 Fundamentals of Acting (3)
- THTRE 265 Fundamentals of Improvisation (3)

Humanities/Social Science Electives + K-State 8

Suggestions:
- AMETH 160 Intro. to American Ethnic Studies (3)
- AMETH 461 Trans-formative Thought (3)
- COMM 420 Gender Communication (3)
- GEOG 310 Geography of Kansas (3)
- GWSS 105 Intro. to Gender, Women, and Sexuality Studies (3)
- LEAD 212 Intro. to Leadership Concepts (3)
- MUSIC 420 History of Jazz (3)
- SOCIO 211 Intro. to Sociology (3)
- THTRE 665 Drama Therapy with Special Populations (3)

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)

Suggestions:
- AMETH 160 Intro. to American Ethnic Studies (3)
- ARCH 301 Appreciation of Architecture (3)
- GEOG 310 Geography of Kansas (3)
- HIST 151 History in the U.S. to 1877 (3)
- HIST 152 History in the U.S. since 1877 (3)
- POLS 115 U.S. Politics (3)
- THTRE 270 Intro. to Theatre (3)