### Math/Science Electives

- **All remaining hours, choose from the following:**
  - BIOC 625 Intro. Organic & Biochemistry (5)
  - BIOC 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 371 Chemical Analysis (4)
  - CHM 531 Organic Chemistry I (3)
  - 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)
  - STAT 511 Intro. Probability and Stat. II (3)
  - MATH 222 Analytic Geo. and Calculus III (4)
  - MATH 340 Elementary Diff. Equations (4)
  - MATH 506 Introduction to Nmbr Theory (3)
  - MATH 511 Introduction to Algebraic Sys. (3)
  - MATH 512 Introduction to Modern Alg. (3)
  - MATH 515 Introduction to Linear Alg. (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 114 General Physics II (4)
  - PHYS 213 Engineering Physics I (5)
  - PHYS 214 Engineering Physics II (5)
  - PHYS 223 Physics I, Mech., & Thermodynamics (5)
  - PHYS 224 Physics II, Electromag. & Sound (5)
  - PHYS 325 Physics III, Relativity, and Quant. Phys. (4)

### MBA Tech Electives

- **Students are required to complete 15 hours of Tech Electives**
  - **Required Tech Elective: 3 hours**
    - CIS 520 Operating Systems I (spring course only)
    - or CIS 625 Parallel Programming (fall course only)
  - **Capstone Experience: 9hrs**
    - Students get the choice between two different pathways for capstone. They need 9 hours total.
    - **Individual Project Path:**
      - CIS 598 Computer Science Project (3)
      - Additional Tech Elective (3)
  - **Dual Group Project Path:**
    - CIS 642 Software Engineering Project I- (3) (F only)
    - CIS 643 Software Engineering Project II- (3) (S only)
    - Additional Tech Elective (3)

### Math/Science Electives

- **Three courses taken for graduate credit from the following list:**
  - CIS 731 Programming Techniques for Data Science and Analytics
  - CIS 732 Machine Learning and Pattern Recognition
  - MIS 670 Social Media Analytics and Web Mining
  - At most one of:
    - MIS 665 Business Analytics and Data Mining
    - MKTG 880 Applied marketing Analytics
    - MKTG 881 Advanced Marketing Analytics
  - Other data analytics courses, including special topics courses, approved by both the Department of Computer Science and the College of Business Administration.

### Natural Science Sequence

- **One of the following two-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)

### Communications Elective Choices

- **Options:**
  - COMM 322 Interpersonal Communications (9)
  - 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)

### Humanities/Social Science Electives

- **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)
  - engg.ksu.edu/docs/student-services/hss.pdf