College of Basic and Applied Sciences Upper Division Form Fall 2020-2021 Catalog

| Student name | | Student # | | |
|---------------|--------------------------------------|-----------|------------|--|
| Major | MATHEMATICS | Minor | (Optional) | |
| Concentration | PROFESSIONAL MATH - STATISTICS TRACK | _ E-mail | | |

Instructions: For students graduating in Summer 2020 or later. One (1) copy signed by major and minor advisors should be filed in DSB 120 three semesters before anticipated graduation. An Intent to Graduate form should also be filed in DSB 120 at the time of Upper Division Form submission.

| General Education | Course | Semester | Grade | Prerequisites/Notes | Credit Hours |
|---|-----------|----------|-------|-----------------------------------|-----------------|
| | ENGL 1010 | | | Must earn a grade of C- or better | 3 |
| COMMUNICATION (9 hours) | ENGL 1020 | | | Must eam a grade of C- or better | 3 |
| | COMM 2200 | | | | 3 |
| HISTORY (6 hours) | | | | | 3 |
| Choose two: HIST 2010, HIST 2020, HIST 2030 | | | | | 3 |
| HUMANITIES AND/OR FINE ARTS (9 hours) | | | | | 3 |
| Choose one: ENGL 2020, 2030, HUM 2610. Choose two different s u b j e c t s : ANTH 2210, ART 1030 or 1920, DANC 1000, HIST | | | | | 3 |
| 1010, 1020, 1110, 1120, MUS 1030, PHIL 1030, THEA 1030 | | | | | 3 |
| MATHEMATICS (3 hours) Choose one: MATH 1010, 1530, 1630, 1710,1720, 1730, 1810, 1910 | | | | MATH 1910 required for major | 3 |
| NATURAL SCIENCES (8 hours) Choose two different subjects: ASTR 1030/1031, BIOL 1030/1031, BIOL 1110/1111,BIOL 2010/2011,BIOL 2020/2021, CHEM 1010/1011, CHEM 1030/1031,CHEM 1110/1111, GEOL | | | | | 4 |
| 1030/1031,GEOL 1040/1041, PGEO 1030, PHYS 1110, PHYS 2010/2011, PHYS 2110/2111, PSCI 1030/1031, PSCI 1130/1131 2110/2111, PSCI 1030/1031, PSCI 1130/1131 | | | | | 4 |
| SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two different subjects: AAS 2100, ANTH 2010, ECON 2410, ECON 2420, GEOG | | | | | 3 |
| 2000, GS 2010, HLTH 1530/1531, MC/JOUR/RIM 1020, PS 1010, PS 1005, PSY 1410, RS 2030, SOC 1010, SOC 2010, WGST 2100 | | | | | 3 |
| | | | | Hours Required | 41 |

| Major Courses - Grade of C (2.0) or higher required in each course | Course | Semester | Grade | Prerequisites/Notes | Credit Hours |
|--|-----------|----------|-------|---|-----------------|
| Calculus I | MATH 1910 | | | Pre-req: MATH 1730 with a C (2.0) or higher, ACT MATH of 26, or Calculus Placement test with satisfactory score. 3 hours counted in Gen. Ed. All 4 hours are also considered part of the major. | 1 (3) |
| Calculus II | MATH 1920 | | | MATH 1910 with a grade of C (2.0) or higher | 4 |
| Calculus III | MATH 3110 | | | MATH 1920 | 4 |
| Elements of Linear Algebra | MATH 2010 | | | MATH 1910 | 3 |
| Probability and Statistics | MATH 2050 | | | MATH 1910 | 3 |
| Foundations of Higher Mathematics | MATH 3460 | | | MATH 1920 | 3 |
| | Statistic | s Track | | | |
| Computer Science I | CSCI 1170 | | | MATH 1730 with a C(2.0) or higher, ACT MATH of 26, or Calculus Placement test with satisfactory score | 4 |
| Computer Science II | CSCI 2170 | | | CSCI 1170 and eligibility for MATH 1910 | 4 |
| Data Analysis | MATH 2110 | | | MATH 2050 | 1 |
| Applied Statistics II | MATH 2530 | | | MATH 2050 | 3 |
| Seminar in Mathematics | MATH 4990 | | | Should be taken in final semester | 3 |
| Mathematical Statistics I (Fall only) | STAT 3150 | | | MATH 1920 | 3 |

| Statistics Track, Continued | Course | Semester | Grade | Prerequisites/Notes | Credit Hours |
|---|-----------|----------|-------|---|-----------------|
| Mathematical Statistics II (Spring only) | STAT 4190 | | | STAT 3150 | 3 |
| | STAT | | | | 3 |
| Choose 3 courses from STAT 4200, 4320, 4360, 4370, 4380, 4600 See department schedule of course offerings. See online catalog for | STAT | | | STAT 4700 could also be accepted; see Advisor | 3 |
| prerequisites. | STAT | | | | 3 |
| Hours Required | | | | | 48 (51) |

| Supporting and Elective Courses - Grade of C (2.0) or higher required in each supporting course | | | | | | |
|---|-------------------|-----------------|--|-----------------|--|--|
| Course | Semester | Grade | Notes | Credit Hours | | |
| MATH 1910 | | | Credits can count in general education | 0-4 | | |
| Advisor approved electives; choose six | c credits from Co | mputing, Info | rmation Systems, and other relevant courses | | | |
| | | | | 3 | | |
| | | | | 3 | | |
| Elective Courses – 25-29 additional credits needed | to reach 120 rec | uired for gradu | uation; 36 total credits must be earned at 3000/4000 level | | | |
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| Hours Required | | | | | | |

| Minor (optional) | | | | | | |
|------------------|----------|-------|-------|-----------------|--|--|
| Course | Semester | Grade | Notes | Credit Hours | | |
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| Hours Required | | | | | | |

^{1.} Degrees require a minimum of 120 semester hours completed with a cumulative and major GPA of 2.0 or higher. Minimum of 36 upper-division hours (3000/4000 level) and a minimum of 50 senior college hours (earned at four-year University) also required.

2. A minimum of 12 credits must be earned at the 3000/4000 level in each major

| Signed: | | |
|---------|---------------|------|
| | Major Advisor | Date |