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

Student name _____ Student # _____

Major **MATHEMATICS**_____ Minor _____ (Optional)

Concentration **PROFESSIONAL MATH – INDUSTRIAL TRACK**_____ E-mail _____

General Education	Course	Semester	Grade	Prerequisites/Notes	Credit Hours
COMMUNICATION (9 hours)	**ENGL 1010**			Must earn a grade of C- or better	3
	ENGL 1020			Must earn a grade of C- or better	3
	COMM 2200				3
HISTORY (6 hours) Choose two: HIST 2010, HIST 2020,HIST 2030					3
					3
HUMANITIES AND/OR FINE ARTS (9 hours) 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 1010, 1020, 1110, 1120, MUS 1030, PHIL 1030, THEA 1030					3
					3
					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 one: 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 1030/1031,GEOL 1040/1041, P G E O 1 0 3 0 / 1 0 3 1 , PSCI 1030/1031,PSCI 1130/1131				PHYS 2110/2111 required for major	4
					4
SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two different subjects**:** AAS 2100, ANTH 2010, ECON 2410, ECON 2420, GEOG 2000,GS 2010, HLTH 1530/1531, EMC/JOUR/RIM 1020, PS 1010, PS 1005, PSY 1410, RS 2030, SOC 1010, SOC 2010, WGST 2100					3
					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
Differential Equations I	**MATH 3120**			MATH 1920 with a grade of C (2.0) or higher	3
STAT 3150 – Mathematical Stat. I or MATH 2050 – Prob. & Stat.				**STAT 3150:** MATH 1920 **MATH 2050:** MATH 1910	3
Differential Equations II (Spring only)	**MATH 3260**			MATH 3120	3
Foundations of Higher Mathematics	**MATH 3460**			MATH 1920	3
Theory of Calculus (Fall only)	**MATH 4250**			MATH 3110 and MATH 3460	3
Numerical Analysis I (See dept. schedule of course offerings)	**MATH 4310**			CSCI 1170 and MATH 2010	3
Advisor approved Math elective				See online catalog for prerequisites	3
				Hours Required	33 (36)

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Supporting Courses - Grade of C (2.0) or higher required in each course				
Course	**Semester**	**Grade**	**Prerequisites/Notes**	**Credit Hours**
PHYS 2110/2111			Credits can count in general education	0-4
PHYS 2120/2121			PHYS 2110/2111 and MATH 1920 with a grade of C (2.0) or higher	4
MATH 1910			Credits can count in general education	0-4
MATH 4990 Seminar in Mathematics			Should be taken in final semester	3
Complete 9 hours from : MATH 4230, 4270, 4320, 4601, 4700; STAT 4190 (See department schedule of course offerings)			See online catalog for prerequisites	3
			See online catalog for prerequisites	3
			See online catalog for prerequisites	3
CSCI 1170 (can be counted toward CSCI minor**)**			MATH 1730 with a C(2.0) or higher, ACT MATH of 26, or Calculus Placement test with satisfactory score	4
CSCI 2170 (can be counted toward CSCI minor)			CSCI 1170 with a grade of C (2.0) or higher	4
Elective Courses – 22-30 additional credits needed to reach 120 required for graduation; 36 total credits must be earned at 3000/4000 level				
			Hours Required	46

Minor (optional)				
Course	**Semester**	**Grade**	**Notes**	**Credit Hours**
			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**