COLLEGE OF ARTS AND SCIENCES	BACHELOR OF SCIENCE IN APPLIED AND COMPUTATIONAL MATHEMATICS	ADMITTED IN 2021-2022 ACADEMIC YEAR

YEAR TERM	MAJOR COURSES					CORE COURSES		TOTAL CREDITS
YEAR 1 FALL	**MATH 170** 4 CALCULUS I Pre-Req: Placement Exam or MATH 136 or MATH 141		**CSCI 125** 3 COMPUTER PROGRAMMING I Co-Req: MATH 136, MATH 141 or higher		**GENERAL ELECTIVE** 3	**FCWR 101*** 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Placement or WRIT 100	**FCIQ 101** 3 FOUNDATIONS OF INQUIRY	16
YEAR 1 SPRING	**MATH 180** 4 CALCULUS II Pre-Req: MATH 170		**CSCI 185** 3 COMPUTER PROGRAMMING II Pre-Req: CSCI 125	**PHYS 170** 4 GENERAL PHYSICS I Co-Req: MATH 170		**FCWR 151*** 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101	**FCSC 101** 3 FOUNDATIONS OF SCIENTIFIC PROCESS	17
YEAR 2 FALL	**MATH 260** 4 CALCULUS III Pre-Req: MATH 180	**MATH 220** 3 PROBABILITY & STATISTICS Pre-Req: MATH 180		**PHYS 180** 4 GENERAL PHYSICS II Pre-Req: PHYS 170; Co-Req: MATH 180		**FCSP 105** 3 FOUNDATIONS OF SPEECH COMMUNICATION		14
YEAR 2 SPRING	**MATH 350** 3 ADVANCED CALCULUS Pre-Req: MATH 260	**MATH 310** 3 LINEAR ALGEBRA Pre-Req: MATH 180	**MATH 330** 4 COMPUTATIONAL ANALYSIS Pre-Req: MATH 260		**COMPUTER SCIENCE ELECTIVE** 3	**FCWR 3XX** 3 PROFESSIONAL COMMUNICATION CHOICE Pre-Req: FCWR 151		16
YEAR 3 FALL	**MATH 320** 3 DIFFERENTIAL EQUATIONS Pre-Req: MATH 260	**MATH 410** 3 NUMERICAL LINEAR ALGEBRA Pre-Req: MATH 310		**COMPUTER SCIENCE ELECTIVE** 3 ***OR*** **SCIENCE ELECTIVE**	**COMPUTER SCIENCE ELECTIVE** 3 ***OR*** **SCIENCE ELECTIVE**	**ICLT 3XX**** 3 LITERATURE CHOICE		15
YEAR 3 SPRING	**MATH 450** 3 PARTIAL DIFFERENTIAL EQUATIONS Pre-Req: MATH 320 ***OR*** **MATH 455** NUMERICAL ANALYSIS Pre-Req: MATH 320 and MATH 410			**SCIENCE ELECTIVE** 4	**GENERAL ELECTIVE** 3	**ICBS 3XX**** 3 BEHAVIORAL SCIENCE CHOICE		13
YEAR 4 FALL	**MATH ELECTIVE** 3	**MATH ELECTIVE** 3	**MATH ELECTIVE** 3		**GENERAL ELECTIVE** 3	**ICPH 3XX**** 3 PHILOSOPHY CHOICE		15
YEAR 4 SPRING	**MATH 490** 5 MATHEMATICAL MODELING CAPSTONE Pre-Req: MATH 450 or MATH 455			**COMPUTER SCIENCE** 3 ***OR*** **SCIENCE ELECTIVE**	**GENERAL ELECTIVE** 3	**ICSS 3XX**** 3 ***OR*** **IENG 400** TECHNOLOGY AND GLOBAL ISSUES		14
CREDITS								**120**

*Non-native English speakers should take FCWR 111 in lieu of FCWR 101 and FCWR 161 in lieu of FCWR 151.

**Pre-Req: FCWR 101, FCWR 151, FCIQ 101, FCSP 105, FCSC 101

(Rev. 3/21)

Course names, numbers and/or pre-requisites are subject to change.