MATHEMATICS (BS) -APPLIED MATHEMATICAL SCIENCES

Program of Study

Core IMPACTS Area : Institutional Priorities 1 4-5 Choose one of the following communication options 3 COMM 1110 Public Speaking Foreign Language Course Options AMSL, ARAB, CHIN, FREN, GERM, GREK, ITAL, JAPN, KREN, LATIN, PORT, SPAN - 1001, 1002, 2001, 2002; SWAH - 1001, 1002. Take one of the following courses 1-2 ITDS 1779 Scholarship Across the Disciplines LEAD 1705 Introduction to Servant Leadership PERS 1506 Perspectives 1-hour PERS 1507 Perspectives 2-hour Core IMPACTS Area : Mathematics & Quantitative Skills 1 3-7 DATA 1501 Introduction to Data Science 3 MATH 1001 Quantitative Skills and Reasoning 3 MATH 1111 College Algebra 3 MATH 1111 College Algebra 3 MATH 1113 Pre-Calculus 4 MATH 1113 Pre-Calculus with Analytic Geometry I 4 MATH 1132 Calculus with Analytic Geometry II 4 MATH 1165 Computer-Assisted Problem Solving 3 MATH 1201 Introduction to Statistics 3 </th <th>Code</th> <th></th> <th>Credit Hours</th>	Code		Credit Hours
Foreign Language Course Options AMSL, ARAB, CHIN, FREN, GERM, GREK, ITAL, JAPN, KREN, LATIN, PORT, SPAN - 1001, 1002, 2001, 2002; SWAH - 1001, 1002. Take one of the following courses ITDS 1779 Scholarship Across the Disciplines LEAD 1705 Introduction to Servant Leadership PERS 1506 Perspectives 1-hour PERS 1507 Perspectives 2-hour Core IMPACTS Area : Mathematics & Quantitative Skills AATH 1001 Quantitative Skills and Reasoning MATH 1101 Introduction to Data Science MATH 1101 Introduction to Mathematical Modeling MATH 1111 College Algebra MATH 1113 Pre-Calculus MATH 1131 Calculus with Analytic Geometry I MATH 1132 Calculus with Analytic Geometry I MATH 1165 Computer-Assisted Problem Solving MATH 1401 Introduction to Discrete Mathematics 3 MATH 2125 Introduction to Discrete Mathematics 3 MATH 2125 Introduction to Discrete Mathematics 3 STAT 1401 Elementary Statistics Core IMPACTS Area : Political Science and U.S. History 6 HIST 2111 U. S. History to 1865 or HIST 2112 U. S. History to 1865 POLS 1101 American Government 3 Core IMPACTS Area : Arts, Humanities, and Ethics Select one Fine Arts course ARTH 1100 Art Appreciation ARTH 2125 Introduction to the History of Art II – Prehistoric through Gothic ARTH 2126 Introduction to the History of Art II – Renaissance through Modern MUSC 1100 Music Appreciation THEA 1100 Theatre Appreciation THEA 1100 Theatre Appreciation THEA 1100 Theatre Appreciation THEA 1100 Theatre Appreciation ITDS 1145 Comparative Arts ² Select one Humanities course 3 ENGL 2111 World Literature II	Core IMPACTS A	rea : Institutional Priorities ¹	4-5
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ENGL 2111 World Literature I ENGL 2112 World Literature II	ITDS 1145	Comparative Arts ²	
ENGL 2112 World Literature II	Select one Huma	nities course	3
	ENGL 2111	World Literature I	
ITDS 1155 The Western Intellectual Tradition	ENGL 2112	World Literature II	
	ITDS 1155	The Western Intellectual Tradition	

ITDS 1774	Introduction to Digital Humanities	
PHIL 2010	Introduction to Philosophy	
ITDS 1145	Comparative Arts ²	
	ea : Communicating in Writing	6
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
Core IMPACTS Are	ea : Technology, Mathematics, and Sciences ^{1,3}	7-11
ANTH 1145	Human Origins	3
ASTR 1105	Descriptive Astronomy: The Solar System	3
ASTR 1106	Descriptive Astronomy: Stars and Galaxies	3
ASTR 1305	Descriptive Astronomy Lab	1
ATSC 1112	Understanding the Weather	3
ATSC 1112L	Understanding the Weather Lab	1
BIOL 1125	Contemporary Issues in Biology Non-Lab	3
BIOL 1215K	Introductory Biology	4
BIOL 1225K	Contemporary Issues in Biology with Lab	4
CHEM 1151	Survey of Chemistry I	4
& 1151L	and Survey of Chemistry I Lab	
CHEM 1152	Survey of Chemistry II	4
& 1152L	and Survey of Chemistry II Lab	
CHEM 1211 & 1211L	Principles of Chemistry I and Principles of Chemistry I Lab	4
CHEM 1212	Principles of Chemistry II	4
& 1212L	and Principles of Chemistry II Lab	
CPSC 1105	Introduction to Computing Principles and Technology	3
CPSC 1301K	Computer Science I	4
ENVS 1105	Environmental Studies	3
ENVS 1105L	Environmental Studies Laboratory	1
ENVS 1205K	Sustainability and the Environment	4
GEOG 2215	Introduction to the Geographic Information Systems	3
GEOL 1110	Natural Disasters: Our Hazardous Environment	3
GEOL 1121	Introductory Geoscience I: Physical Geology	3
GEOL 1121L	Introductory Geoscience I: Physical Geology Lab	1
GEOL 1122	Introductory Geo-sciences II: Historical Geology	3
GEOL 1322	Introductory Geo-sciences II: Historical Geology Lab	1
GEOL 2225	The Fossil Record	4
PHYS 1111 & PHYS 1311	Introductory Physics I and Introductory Physics I Lab	4
PHYS 1112 & PHYS 1312	Introductory Physics II and Introductory Physics II Lab	4
PHYS 1125	Physics of Color and Sound	3
PHYS 1325	Physics of Color and Sound Lab	1
PHYS 2211	Principles of Physics I	4
& PHYS 2311	and Principles of Physics I Lab	
PHYS 2212	Principles of Physics II	4
& PHYS 2312	and Principles of Physics II Lab	
	ea : Social Sciences	6
	oral Science course	
ECON 2105	Principles of Macroeconomics	
ECON 2106	Principles of Microeconomics	
PHIL 2030	Moral Philosophy	

	PSYC 1101	Introduction to General Psychology	
	SOCI 1101	Introduction to Sociology	
,	Select one World	Cultures course	3
	ANTH 1107	Discovering Archaeology	
	ANTH 1105	Cultural Anthropology	
	ANTH 2105	Ancient World Civilizations	
	ANTH 2136	Language and Culture	
	ENGL 2136	Language and Culture	
	GEOG 1101	World Regional Geography	
	HIST 1111	World History to 1500	
	HIST 1112	World History since 1500	
	ITDS 1156	Understanding Non-Western Cultures	
(Core IMPACTS To	tal Hours	42
I	Health and Wellne	ess	3
I	KINS 1106	Lifetime Wellness	2
	or PHED 1205	Concepts of Fitness	
,	Select one of the	following	1
	Any PEDS cour	rse	
	MUSC 1206	Body Mapping (Music Majors Only)	

The hours applied in the Institutional Priorities; Mathematics & Quantitative Skills; and Technology, Mathematics, and Sciences areas must add to 18 credit hours.

² ITDS 1145 Comparative Arts, though listed under both Fine Arts and Humanities, may be taken only once.

³ At least 4 of the credit hours in this area must be in a lab science course.

Major Requirements

CPSC 1301K MATH 2125

MATH 3175

MATH 5125U Discrete Mathematics

Code	Title	Credit Hours
Core Requiremen	nts	
Complete the cor	re requirements for this program	45
Core Total		45
Field of Study Re	equirements	18
Select the following for the Major):	owing course (the extra credit is counted in Requires:	red
CPSC 1301K	Computer Science I (One credit hour is counted Required for Major)	in
MATH 1131	Calculus with Analytic Geometry I ¹	
MATH 1132	Calculus with Analytic Geometry II ¹	
MATH 2115	Introduction to Linear Algebra	
MATH 2135	Calculus with Analytic Geometry 3	
STAT 1401	Elementary Statistics	
Guided electiv	re (0 or 3 hours)	
sophomore level upon student into	vill be selected from among freshman and courses in science, business, and education base erests and career goals and requiring the approval and the Mathematics Department Chair	
Required for the	Major	19-20

Computer Science I (One credit hour from Area F)

Introduction to Discrete Mathematics

Introduction to Probability

MATH 3139	Mathematical Preparation for Business, Industria and Government Careers	al,
MATH 3107	Differential Equations	
MATH 5175U	Mathematical Statistics	
Major Electives		15
Select five of the	following courses.	
MATH 3106	Mathematical Theory of Interest	
MATH 3108	Introduction to Actuarial Science	
MATH 5126U	Actuarial Regression and Time Series	
FINC 3105	Principles of Finance	
FINC 3115	Corporate Financial Analysis	
STAT 3127	Statistical Computing	
STAT 5177U	Applied Regression Analysis	
STAT 5117U	Applied Multivariate Analysis	
DATA 3111	Data Mining I	
DATA 3112	Data Mining II	
DATA 3116	Ethics and Data Analytics	
DATA 3215	Data Analytics Project	
DATA 4698	Data Analytics Internship	
General Electives	Required Hours	25-26
	r hours of courses at 3000-level or higher AND rs of courses at 1000-level or higher.	
Recommended	d for students interested in Actuarial Science:	
ACCT 2101	Principles of Accounting I	
ECON 2105	Principles of Macroeconomics	
ECON 2106	Principles of Microeconomics	
Recommended	d for students interested in Data Science	
CPSC 1302K	Computer Science II	
CPSC 3131	Database Systems I	

CPSC 2108

CYBR 2160

CYBR 4160

Total Credit Hours

Data Structures

Intro to Information Security

123

Applied Cryptography