

DEGREE GUIDE FOR THE COLLEGE OF ARTS AND SCIENCES

B.S. MATHEMATICS - COMPUTER SCIENCE- 2009-2011

Note: Of the 128 credits required for graduation, students must earn at least 104 within Arts and Sciences departments.

Thought and Expression	GRD	7.0
ENGL 101 Engl. Comp.	3	[]
PHIL 101 Crit. Think	2	[]
SPCO 101 Intro. Speech	2	[]
Religious Studies	GRD	9.0
RELI 100 Level	3	[]
RELI 200 Level	3	[]
RELI 300 Level	3	[]
Philosophy	GRD	9.0
PHIL 201 Human Nature	3	[]
PHIL 301 Ethics	3	[]
PHIL 400 Level	3	[]
English	GRD	6.0
ENGL 102, 103H, 105 or 106	3	[]
ENGL 201-285 Literature	3	[]
Fine Arts	GRD	3.0
(P)	3	[]
<i>Course must have 'P' designation</i>		
Foreign Language/Culture	GRD	3.0
(FC)	3	[]
<i>Culture Course must have 'FC' designation</i>		
History (choice of 2)*	GRD	6.0
HIST	3	[]
HIST	3	[]
*HIST 101 and either 102 or 112 in their first year. If they are unable to complete all six 100-level HIST credits in their first year, HIST 201 or 202 may be substituted for one 100-level course after the first year. (NO upper division)		
Social Science	GRD	6.0
CRIM 101, ECON, SOCI, POLS or PSYC	3	[]
	3	[]
Math/Lab Science/Elective*	GRD	10.0
Math*	3	[]
Lab Science	4	[]
	[]	[]
Elective*	3	[]
<i>*MATH 100 level or above (or ITEC as elective)</i>		
Social Justice	GRD	3.0
(J)	3	[]
<i>Social Justice Course must have 'J' designation</i>		
TOTAL CORE CREDIT	(62)	
Electives	[]	[]
	[]	[]
	[]	[]
	[]	[]

B.S. -- MATHEMATICS - COMPUTER SCIENCE: 49 CREDITS

MAJOR LOWER DIVISION 27 credits

CRSE	CRSE Title	CRD	GRD
CPSC 121	Computer Science I	3	[]
CPSC 122	Computer Science II	3	[]
CPSC 223	Data Structures	3	[]
CPSC 224	Object-Oriented Programming	3	[]
MATH 157	Calculus & Analytic Geom. I	4	[]
MATH 231	Discrete Structures	3	[]
MATH 258	Calculus & Analytic Geom. II	4	[]
MATH 259	Calculus & Analytic Geom. III	4	[]

MAJOR UPPER DIVISION 22 credits

CRSE	CRSE Title	CRD	GRD
MATH 301	Fundamentals of Mathematics	3	[]
MATH 339	Linear Algebra	3	[]
MATH 499	Senior Comprehensive	1	[]

Computer Science Courses: **6 credits**
CPSC 300-level or above, except CPSC 497.

CRSE	CRSE Title	CRD	GRD
CPSC		3	[]
CPSC		3	[]

Any 400-Level Mathematics Course: **3 credits**

MATH 4--	3	[]
----------	---	-----

Upper Division Mathematics Electives: **6 credits**

- MATH 321 Statistics for Experimentalists
- MATH 328 Operations Research
- MATH 341 Modern Geometry
- MATH 350 Elementary Numerical Analysis
- MATH 351 Combinatorics and Graph Theory
- MATH 360 - 363 Selected Topics
- MATH 413 Advanced Calculus I
- MATH 414 Advanced Calculus II
- MATH 417 Complex Variables
- MATH 421 Probability Theory
- MATH 422 Mathematical Statistics
- MATH 437 Abstract Algebra I
- MATH 438 Abstract Algebra II
- MATH 450 - 453 Selected Topics
- MATH 454 Partial Differential Equations
- MATH 457 Number Theory & Cryptography
- MATH 490 Directed Research
- MATH 497 Mathematics Internship

MATH	[]	[]
MATH	[]	[]