

Name:
CWID:
Date: 12 June 2009

COLLEGE OF CHARLESTON
Academic Requirements
B.S. Mathematics
Discrete Mathematics Track
Undergraduate Catalog 2009-2010

-----GENERAL EDUCATION REQUIREMENTS-----
A MINIMUM OF 122 CREDIT HOURS IS REQUIRED FOR GRADUATION

English Composition: ENGL 110 _____

- ENGL 110 is required unless credit is awarded for AP or Transfer ENGL credit.
- Students with credit for ENGL 101 & 102 (6 hrs) satisfy the General Education requirement for ENGL.
- Students with ENGL 101 credit (3 hrs) must complete ENGL 110 (4 hrs) or 215 (3 hrs). ENGL 215 is recommended.
- Students with ENGL 102 credit (3 hrs) must complete ENGL 110 (4 hrs) or 215 (3 hrs). ENGL 110 is recommended.

History Requirement (6 hrs): Pre-Modern History _____ Modern History _____
HIST 101 or HIST 102 or
HIST 103 or HIST 104 or
JWST 210 JWST 215

- One course in pre-modern history and one course in modern history. The two courses do not have to be taken in sequence.

Natural Science Sequence (8 hrs): Lecture: _____ Lecture: _____
Lab : _____ Lab: _____

- Choose one discipline - ASTR; BIOL; CHEM; GEOL; PHYS

Math/Logic Requirement (6 hrs): MATH _____ MATH _____

Foreign Language Requirement (0-12 semester hrs: satisfactory completion of 202 or its equivalent):

- _____
- Choose one language from the following: ARBC, CHNS, FREN, GREK, GRMN, HBRW, ITAL, JPNS, LATN, PORT, RUSS, or SPAN.
 - Native speakers of languages other than English may be exempt from further language study, contact the School of Languages, Cultures and World Affairs.

Humanities Requirement (12 hrs):

- _____
- For a complete listing please refer to the Humanities list at advising.cofc.edu/pdf/humanities.pdf
 - Maximum of 6 hours from any one area except interdisciplinary HONS
 - History 101, 102, 103, 104 and JWST 210, 215 when not used to fulfill general education history requirement

Social Sciences Requirement (6 hrs): _____

- Choose from ANTH 100-499; COMM (selected courses); ECON 100-499; LACS 100-499; LING 125; POLS 100-499; PSYC 100-499; SOCY 100-499; URST 201, 310. For a complete listing please refer to the Social Science list at advising.cofc.edu/pdf/social_sciences.pdf

General Electives (required hrs vary): _____

Notes:

----- REQUIREMENTS FOR B.S. IN MATHEMATICS -----

Discrete Track

You must achieve a minimum cumulative GPA of 2.0 in MATH courses that are acceptable for credit toward the major.

CORE COURSES (21 hrs):		Credits	Prerequisite Notes
MATH 120	Introductory Calculus	(4)	_____
MATH 203	Linear Algebra	(3)	_____
MATH 220	Calculus II	(4)	_____
MATH 221	Calculus III	(4)	_____
MATH 295	An Introduction to Abstract Mathematics	(3)	_____
MATH	Capstone Experience	(3)	_____
DISCRETE Concentration (38 hrs):			
CSCI 220	Computer Programming I	(3)	_____
CSCI 222	Computer Programming I Lab	(1)	_____
CSCI 221	Computer Programming II	(3)	_____
CSCI 230	Data Structures and Algorithms	(3)	_____
CSCI 325	Declarative Programming Languages	(3)	_____
CSCI 410	Automata and Formal Languages	(3)	_____
MATH 207	Discrete Structures I	(3)	_____
MATH 245	Numerical Methods and Mathematical Computing	(3)	_____
MATH 246	Mathematical Computing and Programming Lab	(1)	_____
MATH 303	Abstract Algebra	(3)	_____
MATH 305	Elements of Number Theory	(3)	_____
MATH 307	Discrete Structures II	(3)	_____
MATH 450	Discrete Mathematics Models	(3)	_____
One course from the following:			
MATH 250	Statistical Methods I	(3)	_____
Or			
MATH 530	Mathematical Statistics I	(3)	_____
<ul style="list-style-type: none"> ▪ The Department of Mathematics recommends MATH 545 Numerical Analysis. ▪ MATH 323 is a pre-requisite for MATH 545. 			

Notes:

Last Updated May 2009
Subject to change without notice.