

## CURRICULUM GUIDE FOR MATH PROGRAM

(This is an example and not all Compass courses are listed or noted.)

### MATH MAJOR: STUDENT BEGINS DURING FALL OF AN EVEN YEAR

#### YEAR 1

FALL	COURSE TITLE	CREDITS
MATH 225	Calculus I	4

SPRING	COURSE TITLE	CREDITS
CIS 211	Intro to Programming**	3
MATH 226	Calculus II	4

#### YEAR 2

FALL	COURSE TITLE	CREDITS
MATH 230	Statistics for Majors*	3
MATH 343	Number Theory	3

SPRING	COURSE TITLE	CREDITS
MATH 327	Calculus III	3
MATH 443	Abstract Algebra***	3

#### YEAR 3

FALL	COURSE TITLE	CREDITS
MATH 340	Probability	3

SPRING	COURSE TITLE	CREDITS
MATH 333	Linear Algebra	3
MATH 336	Geometry Seminar	3

#### YEAR 4

FALL	COURSE TITLE	CREDITS
MATH 499	Capstone	3

\*MATH 230 is offered every semester, so can be taken any semester.

\*\*CIS 211 is offered every spring, and is recommended for freshman or sophomore year. It is best if taken before MATH 340 Probability.

\*\*\*MATH 443 can be taken in spring of Year 4.

### MATH MAJOR: STUDENT BEGINS DURING FALL OF AN ODD YEAR

#### YEAR 1

FALL	COURSE TITLE	CREDITS
MATH 225	Calculus I	4

SPRING	COURSE TITLE	CREDITS
CIS 211	Intro to Programming**	3
MATH 226	Calculus II	4

#### YEAR 2

FALL	COURSE TITLE	CREDITS
MATH 230	Statistics for Majors*	3
MATH 340	Probability	3

SPRING	COURSE TITLE	CREDITS
MATH 333	Linear Algebra	3
MATH 336	Geometry Seminar	3

#### YEAR 3

FALL	COURSE TITLE	CREDITS
MATH 343	Number Theory	3

SPRING	COURSE TITLE	CREDITS
MATH 327	Calculus III	3
MATH 443	Abstract Algebra	3

#### YEAR 4

FALL	COURSE TITLE	CREDITS
MATH 499	Capstone	3

\*MATH 230 is offered every semester, so can be taken any semester.

\*\*CIS 211 is offered every spring, and is recommended for freshman or sophomore year. It is best if taken before MATH 340 Probability

## CURRICULUM GUIDE FOR MATHEMATICS (BA) AA or AS Transfer Students

### YEAR 1 OR JUNIOR YEAR

FALL	COURSE TITLE	CREDITS
MATH 340 OR MATH 343	Probability  Number Theory	3
MATH 220/230	Statistics / Statistics for Majors*	3
CMPS 102	Compass Navigator: Transfer and Nontraditional	1

\*Students who enter with a 100 or 200-level Statistics class will not be required to take MATH 220/230. MATH 220/230 is offered every semester.

SPRING	COURSE TITLE	CREDITS
MATH 333 OR MATH 327	Linear Algebra  Calculus 3	3
MATH 336 OR MATH 443	Geometry  Abstract Algebra	3
CIS 211**	Intro to Programming	3

\*\*CIS 211 Intro to Programming may be taken spring of senior year.

### YEAR 2 OR SENIOR YEAR

FALL	COURSE TITLE	CREDITS
MATH 340 OR MATH 343	Probability  Number Theory	3
MATH 499	Capstone	3
CMPS 450	Compass Seminar III	3

SPRING	COURSE TITLE	CREDITS
MATH 333 OR MATH 327	Linear Algebra  Calculus 3	3
MATH 336 OR MATH 443	Geometry  Abstract Algebra	3

**FOR A BACHELOR OF ARTS (BA) DEGREE IN MATHEMATICS A STUDENT MUST COMPLETE 32 HOURS IN MATH AND 3 HOURS IN CIS.**

**Differential Equations transfers in as one of the three mathematics major/minor electives**

**REQUIRED CLASSES PRIOR TO ENTERING CLARKE:**

CALCULUS 1

CALCULUS 2

**NOTE: IF STUDENTS HAVE NOT TAKEN CALCULUS 1 AND CALCULUS 2 PRIOR TO ENTERING CLARKE, IT MAY TAKE LONGER THAN TWO YEARS TO COMPLETE THE BA DEGREE IN MATHEMATICS.**