

COLLEGE OF HEALTH AND SCIENCE

MATHEMATICS DATA SCIENCE DEGREE PLAN

2025-2026

FIRST YEAR- FRESHMAN (31-HRS)

Fall Semester

ENG	1113	* Freshman Composition I
CMPS	1113	* Computer Programming I
PS	1113	* US Government
MATH	1513	* College Algebra
MATH	1713	Trigonometry
UNIV	1001	* Tiger Connect

16 TOTAL HOURS

Spring Semester

ENG	1213	* Freshman Composition II
MATH	2825	Calculus and Analytical Geom I
CMPS	1133	Computer Programming II
GE	xxx4	* Nature and Science

15 TOTAL HOURS

SECOND YEAR-SOPHOMORE (29-HRS)

Fall Semester

MATH	3025	Calculus and Analytical Geom II
CPSMA	2103	Data Structures
MATH	1223	Intro to Probability and Statistics
GE	xxx3	* Cultural & Aesth Awareness

14 TOTAL HOURS

Spring Semester

MATH	3033	Calculus and Analytical Geom III
CPSMA	3913	Discrete Mathematics
CMPS	4213	Data Base Design
GE	xxx3	* General Education Elective
MATH	3713	Linear Algebra OR
xxx3		Elective

15 TOTAL HOURS

THIRD YEAR - JUNIOR (30-HRS)

Fall Semester

CPSMA	3933	Operations Research OR
GE	xxx3	* Civic Consciousness
MATH	4923	Perspectives in Mathematics OR
GE	xxx3	* Cultural & Aesth Awareness
GE	xxx3	* Gen Ed Elective
GE	xxx3	* Nature and Science
xxx3		Elective

15 TOTAL HOURS

Spring Semester

CMPS	3313	Advanced Computer Language
MATH	3513	Mathematical Statistics OR
MATH	3583	Applied Statistics
CPSMA	3813	Data Mining OR
CPSMA	4313	Data Processing and Visualization
CPSMA	4413	Numerical Methods OR
CPSMA	3913	Data Applications in Business
MATH	3713	Linear Algebra OR
xxx3		Elective

15 TOTAL HOURS

FOURTH YEAR - SENIOR (30-HRS)

Fall Semester

CPSMA	3933	Operations Research OR
GE	xxx3	* Civic Consciousness
MATH	4923	Perspectives in Mathematics OR
GE	xxx3	* Cultural & Aesth Awareness
GE	xxx3	* Gen Ed Elective
xxx3		Elective
xxx3		Elective

15 TOTAL HOURS

Spring Semester

MATH	3513	Mathematical Statistics OR
MATH	3583	Applied Statistics
CPSMA	3813	Data Mining OR
CPSMA	4313	Data Processing and Visualization
CPSMA	4413	Numerical Methods OR
CPSMA	3913	Data Applications in Business
xxx3		Elective
xxx3		Elective

15 TOTAL HOURS

Legend: *General Education Requirements