DATA SCIENCE • Geoanalytics Track
MATHMATICS AND COMPUTER SCIENCE DEPARTMENT • HENSON SCHOOL

UNIVERSITY POLICIES
• Refer to the SU catalog for approved prerequisites and General Education courses.
• Requirements may not equal 120 credit hours. Students must register for additional electives to complete 120 credits required for graduation.
• All graduates must have a minimum of 30 credits of 300/400-level courses with C grade or above; at least 15 of these credits must be taken at SU.
• Students must have a minimum cumulative GPA of 2.0 for graduation.
• Students must take 30 of the last 37 credit hours at SU.
• It is the student’s responsibility to satisfy graduation requirements.

GENERAL EDUCATION REQUIREMENTS
Course No. & Title #Credits Grade Term Completed
Group I: English Composition and Literature (2 courses)
A. C or better in ENGL 103 or HONR 111 4
B. Literature course (from either ENGL or MDFL Depts.) 4

Group II: History (2 courses)
A. HIST101, 102, or 103 4
B. HIST101, 102, 103 or a HIST course above 103 4

Group III: Humanities and Social Sciences (3 courses)
A. Select one course from one of the following seven areas:
   ART, COMM, DANC or THEA, MDFL, MUSC, PHIL, HONR 211 4
   B. Select one course from one of the following eight areas:
      ANTH, CADR, ECON or FINA, ENVH, Human GEOG, POSC, PSYC, SOCI, HONR 112 3/4
   C. Select one course from either Group IIIA or IIIB
      (course must be from a different area than previously selected) 3/4

Group IV: Natural Science, Math and Computer Science (4 courses)
A. Select courses with laboratories from at least two of the following four areas:
   BIOL, CHEM, GEOL or Physical GEOG, PHYS 4
   B. Select one additional course (need not be a lab) from Group IVA
      or ENVH or ENVH or COSC or MATH or HONR 212
   C. Select one course from MATH

Group V: Health Fitness (1 course)
FTWL106 - Lifelong Fitness and Wellness 3

MAJOR REQUIREMENTS
• All courses taken for the major must be completed with a grade of C or better.
Course No. & Title #Credits Grade Term Completed
DATA SCIENCE CORE (9 courses)
COSC117 - Programming Fundamentals 4
COSC120 - Computer Science I 4
COSC311 - Introduction to Data Science 4
MATH201 - Calculus I 4
MATH202 - Calculus II 4
MATH216 - Statistical Thinking 4
MATH306 - Linear Algebra 4
DSCI470 - Research Methods in Data Science 3
DSCI490 - Capstone Project 3

GEOANALYTICS TRACK (4 courses)
GEOG 204 - Statistical Problem Solving in Geography 4
GEOG 219 - Map Interpretation and Analysis 4

Complete 2 courses from the following (circle courses taken):
GEOG 304 - Decision Making with GIS 4
GEOG 315 - Topics in GIS Modeling 3
GEOG 317 - Atmospheric Data Analysis and Programming 3
GEOG 319 - Geographic Information Science 4
GEOG 320 - Cartographic Visualization 3

Est. 10/2019