Colorado State University

STATISTICS MAJOR

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ALL UNIVERSITY CORE CURRICULUM (AUCC) (28 credits)

WRITING **6**

_____ CO 150 College Composition [3]

and one of:

_____ JTC 300 Prof. and Tech. Comm. [3]

_____CO 300 Writing Arguments [3]

BIOLOGICAL / PHYSICAL SCIENCES **7**

Select two courses from Category 3-A, one of which MUST have a formal Lab.

_____ _____ [ ]

_____ _____ [_]

ARTS / HUMANITIES **6**

Select two courses from 3-B

_____ _____ [_]

_____ _____ [_]

SOCIAL / BEHAVIORAL SCIENCES **3**

Select one course from 3-C

_____ _____ [_]

HISTORICAL PERSPECTIVES **3**

Select one course from 3-D

_____ _____ [_]

GLOBAL / CULTURAL AWARENESS **3**

Select one course from 3-E

_____ _____ [_]

Recommended Time Frame:

1st Year:

STAT 192, STAT 315, MATH 160, MATH 161, (CS 150 or 152 or 163 or 164)

2nd Year:

STAT 341, STAT 342, MATH 261, (DSCI 369 or MATH 369), (CS 220 or MATH 235)

3rd Year:

STAT 420, STAT 430, STAT 472, 3 credits of upper-division STAT/ DSCI/ MATH/ CS

4th Year:

6 credits upper division STAT/ DSCI/ MATH/ CS
6 credits 400-level STAT

STATISTICS CORE (54-59 credits)

(Grade of C or higher required in all Mathematics, Computer Science, Statistics courses in this column)

MATHEMATICS **17-20**

____ MATH 160 Calc for Physical Scientists I [4]
____ MATH 161 Calc for Physical Scientists II [4]
____ MATH 261 Calc for Physical Scientists III [4]
and one of:
____ MATH 369 Linear Algebra I [3]
____ DSCI 369 Linear Algebra for Data Science [4]
and one of:
____ CS 220 Discrete Structures and their Applications [4]
____ MATH 235 Intro to Mathematical Reasoning [2]

STATISTICAL METHODS **19**

Take all of the following:
____ STAT 192 First Year Seminar in Statistics [1]
____ STAT 315 Statistics for Eng & Sci [3]
____ STAT 341 Data Analysis I (Fall) [3]
____ STAT 342 Data Analysis II (Spring) [3]
____ STAT 420 Probability/ Math Stat I (Fall) [3]
____ STAT 430 Probability/ Math Stat II (Spring) [3]
____ STAT 472 Statistical Consulting (Spring) [3]

COMPUTER SCIENCE **3-5**

____ STAT 158 R Programming (Spring) [1]
And take one of the following:
____ CS 152 Intro to Programming – Python [2]
____ CS 150 Interactive Programming with Java [3]
____ CS 163 Java (CS1) No Prior Programming [4]
____ CS 164 Java (CS1) Prior Programming [4]

STAT/ DSCI/ MATH/ CS ELECTIVES **[9]**

Three upper division (300 or 400 level) statistics, data science, mathematics, or computer science, excluding courses ending in -80 to -99. (see list at right for options).

____ _____ [ ]

____ _____ [ ]

____ _____ [ ]

400 LEVEL STAT ELECTIVES **[6]**

Two 400 level STAT courses, (excluding courses ending in -80 to -99)

____ _____ [ ]

____ _____ [ ]

UNRESTRICTED ELECTIVES (33-38 credits)

Take enough unrestricted electives so that total credits earned is at least 120.

GRADUATION REQUIREMENTS

Total credits…….. [___]
(at least 120 credits)
Upper-Division credits……. [___]
(at least 42 credits)
CSU GPA…….. [___]
(at least 2.0)

Recommendations for Upper-division STAT/ DSCI/ MATH/ CS Electives:

____ STAT 305
____ STAT 331
____ STAT 400
____ STAT 421
____ STAT 440
____ STAT 460
____ DSCI 320
____ DSCI 335
____ DSCI 336
____ DSCI 445
____ DSCI 473
____ DSCI 475
____ CS 320 (recommended for CS minors)
____ CS 420 (recommended for CS minors)
____ MATH 301
____ MATH 317
____ MATH 331
____ MATH 340
____ MATH 345
____ MATH 360
____ MATH 450
____ MATH 464

Revised 7/18/19