Statistics – Data Science, Bachelor of Science (B.S.) (347004BS) Checklist

General Education Revision Requirements Students must complete Writing, Mathematics, and Speaking requirements during their first year.	
ACADEMIC FOUNDATIONS	
Writing: (6 cr - 2 courses)	
Quantitative Reasoning: (3 cr)	
Speaking: (3 cr)	
DISCIPLINARY AREAS	
Arts/Humanities: (9 cr- 3 courses)	
Social Sciences: (6 cr -2 courses)	
Natural Sciences: (7 cr -2 courses)	
TAGS (one class each)	
Critical Thinking (CT)	
Complex Systems (CS)	
Domestic Diversity (DD)	
Global Diversity (GD)	
College of Arts & Sciences Requirements	
Foreign Language: (14 cr-4 courses)	
101 Beginning I (4 cr)	
102 Beginning II (4cr)	
201 Intermediate I (3-4 cr)	
202 Intermediate II (3-4 cr)	
7700:222 Survey Deaf Culture America *(American Sign Language option only)*	
300/400 Upper Division Requirement: (40 cr)	

Statistics Core Requirements (36 credits)	
Core Curriculum	
3450:221Analytic Geometry-Calculus I (4 cr)	
3450:222 Analytic Geometry-Calculus II (4 cr)	
3450:223 Analytic Geometry-Calculus III (4 cr)	
3460:209 Introduction to Computer Science I(4 cr)	
3470:451 Theoretical Statistics I (3 cr)	
3470:452 Theoretical Statistics II (3 cr)	
3470:461 Applied Statistics (4 cr) OR 3470:261, 262 Intro to Statistics 1, 2(2 cr each)	
3470:462 Applied Regression and ANOVA (4 cr)	
3470:480 Statistical Data Management (3 cr)	
*3470:495 Statistical Consulting (1-3 cr)	
Data Science Option Requirements (21 credits)	
Select 5 courses listed below:	
3470:477 Time Series Analysis (3 cr)	
3470:485 Applied Analytics-Decision Trees (3 cr)	
3470: 483:Advanced Statistical Computing (3 cr)	
3460:445 Introduction to Bioinformatics (3 cr)	
6500:324 Database Management for Information Systems (3 cr)	
Two 400-level Statistics electives are also required (6 cr). The two courses may be any 3470:4xx courses, except 3470:401 and 3470:461.	
NOTE 2.00 GPA is required for all statistics courses. At least 14 credits of major must be taken at The University of Akron. *3 credits of 3470:495 Statistical Consulting are required. Recommended students take 2 credits one semester and 1 credit in a later semester.	
120 Credit Minimum	

Revised 2/17