## Colorado State University STATISTICS MINOR

Undergraduate Advisor: Ben Prytherch 213	Statistics	Phone: (970) 491-3899	Email: prytherc@stat.colostate.edu	
Program Coordinator: Katy Jackson 102	Statistics	Phone: (970) 491-6546	Email: jackson@stat.colostate.edu	
GRADUATION REQUIREMENTS       21 credits minimum         Total REQUIRED Credits       [9-10]         Total ELECTIVE Credits       [11-12]         *NOTE: Students with previous R programming experience may waive STAT 158 with permission from a statistics advisor.		2] elective courses. The elective at the 300-400 level that ar acceptable in meeting the r advisor to inquire about pro	<b>ELECTIVE COURSES</b> This is not meant to be an all-inclusive listing of elective courses. The electives shown below represent a portion of those courses at the 300-400 level that are offered by other departments and that are acceptable in meeting the minor in Statistics. Contact the Statistics Department advisor to inquire about pre-approving other courses.	
A <b>MINIMUM</b> grade of C must be obtained in ALL	courses.	APPROVED OUTSIDE	ELECTIVES:	[6]
GROUP A: Introductory Course (Select one)         —       STAT 301 Intro to Statistical Methods         —       STAT/ ERHS 307 Introduction to Biostatistics         —       STAT 315 Statistics for Engineers and Scientis         —       STAT 201 or 204 AND STAT 302         GROUP B: Core Courses (Must take ALL courses)         —       STAT 158 Programming in R (S)         —       STAT 341 Data Analysis I (F)         —       STAT 342 Data Analysis II (S)         Electives:       —         —       See lists below and to the right, select at least 6 statistics and data science electives and up to 6 approved outside electives.	sts 5 credits from the list of	[3]       —       BIOM 431 Bio         [3]       —       BZ 346 Populai         [3]       —       BZ 350 Molecu         [4]       —       BZ 360 Bioinfid         [4]       —       BZ 360 Bioinfid         [4]       —       CIS 370 Busine         [4]       —       CS 220 Discret         [7]       —       CS 320 Algorit         [1]       —       CS 420 Introdu         [3]       —       ECE 303 Introdu         [3]       —       ECE 311 Linea         [3]       —       ECCN 335 Introdu         [3]       —       ECCN 335 Introdu         [4]       —       ECNN 335 Introdu         [5]       —       ECNN 435 Ecco         [6]       —       ERHS 332 Prin         —       ERHS 330 Quant       —         —       F 321 Forest Bi       —         —       F 422 Quantitat       —         —       FIN 430 Introdu       —	etics of Biomolecular and Cellular Systems (S) medical Signal and Image Processing (S) tion and Evolutionary Genetics (F) alar and General Genetics ormatics and Genomics (S) ess Analytics the Structures and their Applications hms – Theory and Practice tection to Analysis of Algorithms (F) duction to Communications Principles (S) ar System Analysis I (F) tr System Analysis I (S) tr System Analysis II (S) to to Econometrics onomic Forecasting (S, even years) neiples of Epidemiology (S) man Disease and the Environment (S) tittative Reasoning for Ecosystem Science (S) iometry (F) tive Methods in Forest Management (F) uction to Financial Modeling (F)	<ul> <li>[3]</li> <li>[3]</li> <li>[4]</li> <li>[3]</li> <li>[4]</li> <li>[3]</li> <li>[4]</li> <li>[3]</li> <li>[4]</li> <li>[4]</li></ul>
STATISTICS AND DATA SCIENCE ELECTIVES:         Select at least 6 credits from the following:         —       STAT 305 Sampling Techniques (F)         —       STAT 331 Intermediate Applied Statistical Me         —       STAT 400 Statistical Computing (F)         —       STAT 420 Probability & Mathematical Statisti         —       STAT 420 Probability & Mathematical Statisti         —       STAT 421 Introduction to Stochastic Processes         —       STAT 430 Probability & Mathematical Statisti         —       STAT 440 Bayesian Data Analysis (S)         —       STAT 440 Applied Multivariate Analysis (S)         —       STAT 472 Consulting and Research         —       DSCI 235 Data Wrangling (S)         —       DSCI 320 Optimization Methods in Data Scient         —       DSCI 335 Inferential Reasoning in Data Analy         —       DSCI 336 Data Graphics and Visualization (S)         —       DSCI 369 Linear Algebra for Data Science (S)         —       DSCI 473 Introduction to Geometric Data Analysis (S)	ccs I (F) (S) ccs II (S) cce (F) sis (S)	[6]       — FW 401 Fisher,         — FW 471 Wildli         — FW 475 Conset         [3]       — HDFS 350 App         [3]       — MATH 229 Ma         [3]       — MATH 311 Int         [3]       — MATH 301 Int         [3]       — MATH 450 Int         [3]       — MATH 450 Int         [3]       — MECH 231 Eng         [3]       — MECH 417 Co         [3]       — MKT 450 Marf         [3]       — MKT 450 Marf         [3]       — NR 421 Natura         [3]       — NR 422 CIS App         [1]       — PSY 370 Resea         [3]       — PSY 370 Psych         [3]       — SOC 314 Socio	fe Data Collection and Analysis rvation Decision Making (S, odd years) olied Research Methods atrices and Linear Eqautions3 roduction to Mathematical Modeling (F) roduction to Ordinary Differential Equations	<ul> <li>[3]</li> <li>[3]</li> <li>[4]</li> <li>[3]</li> <li>[2]</li> <li>[3]</li> <li>[4]</li> </ul>