

COURSE OUTLINE: NET150 - DATA ANALYSIS/PRESEN

Prepared: Rob Routledge

Approved: Sherri Smith, Chair, Natural Environment, Business, Design and Culinary

Program Number: Name 5220: NAT ENVIRONMENT TN 5221: NAT ENVIRONMENT TN 5221 - NAT ENVIRONMENT TY 5221 - NAT ENVIRO	Course Code: Title	NET150: DATA ANALYSIS AND PRESENTATION				
Semesters/Terms: 19W This course provides students with an introduction to statistics and experience using the spreadsheet program Microsoft Excel to enter and manipulate data, generate descriptive statistics, create tables and graphs, and conduct basic inferential statistics. Students will also be introduced to the database program Microsoft Access. In addition, students will learn how to use PowerPoint as an effective visual communication tool. Total Credits:	Program Number: Name					
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Late assignments will only be accepted within 24 hours past the due date and will be penalized	Skills (EES) addressed in this course:	and electronic forms. EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience. EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication. EES 3 Execute mathematical operations accurately. EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 11 Take responsibility for ones own actions, decisions, and consequences.				
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The instructor cannot guarantee responses to questions in the 24-hour period prior to assignment deadlines and tests via phone message or email.

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1		
Demonstrate ability to use PowerPoint to design an effective slide show and large format poster presentation.	1.1 Discuss the advantages and limitations of using a PowerPoint slide show as an effective visual communication tool. 1.2 Define criteria which contribute to an effective poster presentation and PowerPoint slide show and establish rules to guide their preparation.		
Course Outcome 2	Learning Objectives for Course Outcome 2		
Demonstrate ability to use spreadsheet and database programs (Microsoft Excel and Access) for the purposes of data entry, organization, and analysis.	2.1 Demonstrate ability to set up an Excel spreadsheet to accommodate data entry (e.g., create column headers to organize data into discrete records, create dropdown lists, embed data validation). 2.2 Demonstrate ability to utilize the data form feature to enter additional data to a spreadsheet. 2.3 Demonstrate ability to utilize the database capabilities of Microsoft Excel to sort, filter and organize raw data sets in a meaningful way. 2.4 Demonstrate ability to use the data analysis tools available in Microsoft Excel (use descriptive statistics to explore data, use basic parametric and non-parametric inferential statistics). 2.5 Prepare graphs and tables using Microsoft Excel to summarize descriptive data and statistical analysis. 2.6 Demonstrate proficiency in measurement unit conversions (i.e., within and between english and metric systems).		
Course Outcome 3	Learning Objectives for Course Outcome 3		
Demonstrate knowledge of elementary statistics and associated terminology.	3.1 Define and distinguish between qualitative and quantitative data. 3.2 Describe the differences and strengths and weaknesses among the four levels of measurement: nominal(categorical), ordinal(rank order), interval, and ratio. 3.3 Define and distinguish between discrete and continuous variables. 3.4 Understand how descriptive statistics can be used to explore field data: a)measures of central tendency (mean, median, mode), measures of spread (range, standard deviation, variance), skewness, tables and graphs (e.g., frequencies or percentages), associations between two or more variables (contingency tables for categorical variables, scatterplots and correlation for quantitative variables) 3.5 Understand concepts underlying inferential statistics: - Normal distribution - Confidence intervals - Regression analysis		

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight	Course Outcome Assessed
Assignments	50%	all



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	Tests	50%	all	
Date:	June 19, 2018			
	Please refer to the information.	e course outline adde	ndum on the Learning Manage	ment System for further

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