

COURSE OUTLINE: NET150 - DATA ANALYSIS/PRESEN

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

Course Code: Title	NET150: DATA ANALYSIS AND PRESENTATION			
Program Number: Name	5220: NAT ENVIRONMENT TN 5221: NAT ENVIRONMENT TY			
Department:	NATURAL RESOURCES PRG			
Semesters/Terms:	22W			
Course Description:	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:	2			
Hours/Week:	2			
Total Hours:	30			
Prerequisites:	There are no pre-requisites for this course.			
Corequisites:	There are no co-requisites for this course.			
Vocational Learning Outcomes (VLO's) addressed in this course: Please refer to program web page for a complete listing of program outcomes where applicable.	 5220 - NAT ENVIRONMENT TN VLO 7 Work safely in adherence to occupational health and safety standards. VLO 11 Communicate technical information accurately and effectively in oral, written and visual forms. 5221 - NAT ENVIRONMENT TY VLO 10 Communicate technical information accurately and effectively in oral, written, visual and electronic forms. 			
Essential Employability Skills (EES) addressed in this course:	 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. 			
Course Evaluation:	Passing Grade: 50%, D A minimum program GPA of 2.0 or higher where program specific standards exist is required			

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2021-2022 academic year.

SAULT COLLEGE | 443 NORTHERN AVENUE | SAULT STE. MARIE, ON P6B 4J3, CANADA | 705-759-2554

	for graduation.			
Other Course Evaluation & Assessment Requirements:	Academic success is directly linked to attendance. Missing more than 1/3 of the course hours i			
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 		

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2021-2022 academic year.

SAULT COLLEGE | 443 NORTHERN AVENUE | SAULT STE. MARIE, ON P6B 4J3, CANADA | 705-759-2554

	median, mode), measures of spread (range, standard deviation, variance), skewness, tables and graphs (e.g., frequencies or percentages), associations between two or mo 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	
	Assignments	50%	
	Tests and Quizzes	50%	
Date:	September 3, 2021		
Addendum:	Please refer to the c information.	course outline addend	lum on the Learning Management System for further

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2021-2022 academic year.

SAULT COLLEGE | 443 NORTHERN AVENUE | SAULT STE. MARIE, ON P6B 4J3, CANADA | 705-759-2554