



**Approved by Chair:**

*(Note: Signature, Jpeg, electronic pdf etc...)If image remember alt text!*

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Signature

## **COURSE SECTION INFORMATION**

### **Research Methods and Inferential Statistics Health Information Management**

**Teacher's Name: Taras Gula**

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**Office: WF601**

**Student Office Hours: by appointment**

**Course Code: Stat2001**

**Course Section:**

**Academic Year: 2020-2021**

**Term: Fall 2021**

#### **Section-Specific Learning Resources**

[www.statcat.ca](http://www.statcat.ca); [www.stataras.com](http://www.stataras.com); [bit.ly/henupr](https://bit.ly/henupr)

#### **Other Specific Course Information**

There will be one end of term test and a few other quizzes and one in class reading research assessment. Rewrites will only be considered if you let the professor know that you will be away and why prior to the test - a medical (or other) note may be required AND I reserve the right to phone your doctor to confirm the validity of your note. In-class assessments and quizzes will be treated the same way. All arrangements need to be made prior to the commencement of the quiz/assignment/test.

#### **Weekly Class and Evaluation Schedule**

#### **TOPICAL OUTLINE:**

<b>Week &amp; Date</b>	<b>Topic</b>	<b>Content / Learning Activities</b>	<b>Learning Resources</b>	<b>Evaluation - Description</b>	<b>Evaluation - Percentage Value</b>
1 – Day/Mth	Foundations of research and review stat1013	Scientific world-view on knowledge and evidence, research concepts, process and design; exercise 1 Classifying research; exercise 2 on research questions	Booklet pages: 1-14	Stat1013 review	8%
2 – Day/Mth	Unit 2 Research Design	Refining research idea – exercise 2; Introduction to Literature reviews - exercise 3; and research design exercise 4	Booklet pages: 15-24	Stat1013 inferential stats review	2%
3 – Day/Mth	Unit 3 Reading abstracts;	start of Research Project (RP) and Literature Review assignments. Exercise 5 reading quantitative abstracts	Booklet pages: 17-25		
4 – Day/Mth	Start of Research Project	Practice with reading research abstracts – Exercise 5; Literature Review topic due. TCPS2 due; work on proposals	Booklet pages: 26-32		
5 – Day/Mth	Unit 4. Inferential Data Analysis	Review of confidence intervals and central limit theorem – Exercise 6 and 7.	Booklet pages: 33-46	Unit 5 TCPS2 due  Unit 3.1 Read and classify abstracts test	5%  10%

<b>Week &amp; Date</b>	<b>Topic</b>	<b>Content / Learning Activities</b>	<b>Learning Resources</b>	<b>Evaluation - Description</b>	<b>Evaluation - Percentage Value</b>
6 – Day/Mth	Inference with 1 variable	Introduction to hypothesis testing concepts, and inference for single variables – Exercise 8.	Booklet pages: 47-56		
7 – Day/Mth	Inference with 2 measurement variables	Inference with 2 measurement variables – Exercise 9.	Booklet pages: 57-64	Unit 2a Research Proposal outline  Unit 3.2 Lit review	2%  10%

**Week 8 - Intersession**

**Note: Students who have a concern with their academic standing in this course should consult their teacher.**

**For information on withdrawing from this course without academic penalty, please refer to [Important College Dates](#)**

<b>Week &amp; Date</b>	<b>Topic</b>	<b>Content / Learning Activities</b>	<b>Learning Resources</b>	<b>Evaluation - Description</b>	<b>Evaluation - Percentage Value</b>
9 – Day/Mth	Inference 2 categorical variables	Inference for 2 categorical variables. Exercise 10. Practice with reading abstracts (review exercise 5).	Booklet pages: 65-70	Full proposal	5%
10 – Day/Mth	Inference compare means	Inference 1 categorical and one measurement (t-tests and ANOVA) Exercise 11	Booklet pages: 71-73		
11 – Day/Mth	Boot Camp; more on validity	Evaluating research - internal and external validity: Exercise 13	Booklet pages: 77-80	Choose Hypothesis test quiz in class	5%
12 – Day/Mth	Unit 5. Ethics in research	ethics in research ; Data analysis boot camp Exercise 12	Booklet pages: 74-88	Inferential Stats test in class  Preliminary report	15%  5%
13 – Day/Mth	Unit 6. Qualitative research classification	Intro to qualitative research & Qualitative research types;	Booklet pages: 89-102		

<b>Week &amp; Date</b>	<b>Topic</b>	<b>Content / Learning Activities</b>	<b>Learning Resources</b>	<b>Evaluation - Description</b>	<b>Evaluation - Percentage Value</b>
14 – Day/Mth	Reading Qualitative research abstracts	Practice with qualitative research Exercise 14  Data analysis boot camp review exercise 12	Booklet pages:  89-102	Final Research report	13%
15 – Day/Mth	Unit 2.1 mini research design test Unit 5.2 and 6 tests			See OneNote for details	10% 10%

**Please note:** This schedule may change as resources and circumstances require. Important dates regarding the College Academic Calendar can be found at: [Important College Dates](#)