SAMPLE COURSE OUTLINE

Course Code, Number, and Title:

DANA 4820: Predictive Analytics- Qualitative Data

Course Format:
[Course format may vary by instructor. The typical course format would be:]

Lecture 3 h + Seminar 0 h + Lab 1 h

Credits: 3 **Transfer credit:** For information, visit bctransferguide.ca

Course Description, Prerequisites, Corequisites:

Predictive Analytics is a process of using and applying statistical analysis techniques for estimation and forecasting. Students learn standard methodology for analyzing categorical data including chi-square tests for two-way and multi-way contingency tables, logistic regression, and Poisson regression.

Registration in this course is restricted to students admitted to the Post-Degree Diploma in Data Analytics.

Prerequisite(s): A passing mark from Data Analytics Math Assessment Test or a passing grade in MATH 4801 and a minimum "C" grade in DANA 4800.

Corequisites: None

Registration restricted to students admitted to the PDD in Data Analytics

Learning Outcomes:
Upon successful completion of this course, students will be able to:

- use the generalized linear model technique to develop statistical models when the response variable is not normally distributed and as a generalized approach to linear regression.
- conduct data analysis with data displayed in the form of two-way, three-way, and multi-way contingency table using Chi-square distribution and check the underlying requirements
- conduct data analysis on categorical data using Logistic regression and check the underlying requirements
- conduct data analysis on categorical data using Poisson regression and check the underlying requirements
- use industry-leading statistical software applications to perform the data analysis related to this course and to interpret the output

Instructor(s): TBA
Office: TBA **Phone: 604 323 XXXX** **Email: TBA**

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Office Hours: TBA

Textbook and Course Materials:
[Textbook selection may vary by instructor. An example of texts and course materials for this course might be:}

For textbook information, visit https://mycampusstore.langara.bc.ca/buy_courselisting.asp?selTerm=3|8

Note: *This course may use an electronic (online) instructional resource that is located outside of Canada for mandatory graded class work. You may be required to enter personal information, such as your name and email address, to log in to this resource. This means that your personal information could be stored on servers located outside of Canada and may be accessed by U.S. authorities, subject to federal laws. Where possible, you may log in with an email pseudonym as long as you provide the pseudonym to me so I can identify you when reviewing your class work.*

Assessments and Weighting:
Final Exam 35%
Other Assessments %
(An example of other assessments might be:) %

Midterm Exam: 30%
Assignments: 10%
Project: 25%

Proportion of individual and group work:
Individual: 65%
Group: 35%

Grading System: Letter grade
Specific grading schemes will be detailed in each course section outline.

Passing grade: C

Topics Covered:
[Topics covered may vary by instructor. An example of topics covered might be:]

1. Chi-squared analysis for two-way, three-way, and multi-way contingency table
2. Logistic regression
3. Poisson regression

As a student at Langara, you are responsible for familiarizing yourself and complying with the following policies:

College Policies:

E1003 - Student Code of Conduct
F1004 - Code of Academic Conduct
E2008 - Academic Standing - Academic Probation and Academic Suspension
E2006 - Appeal of Final Grade
F1002 - Concerns about Instruction
E2011 - Withdrawal from Courses

Departmental/Course Policies: