

UNIVERSITY OF CALGARY

Title of Thesis (title case, double spaced, no more than 240 characters. No bold font or symbols,  
except Greek)

Thesis Title Second Line

by

Student's Full Name

A THESIS

SUBMITTED TO THE FACULTY OF GRADUATE STUDIES

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE

DEGREE OF "FULL NAME OF DEGREE e.g.: DOCTOR OF PHILOSOPHY"

GRADUATE PROGRAM IN "NAME OF PROGRAM"

CALGARY, ALBERTA

month name, year

© Student's Full Name year

# **Abstract**

Paragraph 1

Paragraph 2

Paragraph 3

This page is required for all graduate theses. An abstract is a short paragraph explaining the major points and conclusions of your thesis. For master's theses, the abstract can be no more than 150 words long, while doctoral abstracts can be no longer than 350 words.

# Acknowledgements

Paragraph 1

Paragraph 2

Paragraph 3

# Table of Contents

<b>Abstract</b> . . . . .	ii
<b>Acknowledgements</b> . . . . .	iii
Table of Contents . . . . .	iv
List of Tables . . . . .	v
List of Figures . . . . .	vi
List of Symbols . . . . .	vii
1 TYPE CHAPTER NAME HERE . . . . .	1
1.1 The First Section in the Chapter . . . . .	1
1.1.1 This is a Sub Section in the Chapter . . . . .	2
1.1.2 This is a Sub Section in the Chapter . . . . .	2
1.1.3 This is a Sub Section in the Chapter . . . . .	3
1.1.4 This is a Sub Section in the Chapter . . . . .	3
1.1.5 This is a Sub Section in the Chapter . . . . .	4
1.1.6 This is a Sub Section in the Chapter . . . . .	4
1.1.7 This is a Sub Section in the Chapter . . . . .	5
1.1.8 This is a Sub Section in the Chapter . . . . .	5
A First Appendix . . . . .	6

# List of Tables

A.1	Table in the appendix . . . . .	8
-----	---------------------------------	---

## List of Figures and Illustrations

1.1	This is the only figure . . . . .	2
1.2	This is the only figure . . . . .	2
1.3	This is the only figure . . . . .	3
1.4	This is the only figure . . . . .	3
1.5	This is the only figure . . . . .	4
1.6	This is the only figure . . . . .	4
1.7	This is the only figure . . . . .	5
1.8	This is the only figure . . . . .	5
A.1	Figure in the appendix . . . . .	7

# **List of Symbols, Abbreviations and Nomenclature**

Symbol	Definition
U of C	University of Calgary

# Chapter 1

## TYPE CHAPTER NAME HERE

### 1.1 The First Section in the Chapter

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.



Place the figure here

Figure 1.1: This is the only figure

Place the figure here

Figure 1.2: This is the only figure

#### 1.1.1 This is a Sub Section in the Chapter

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.

#### 1.1.2 This is a Sub Section in the Chapter

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.

Place the figure here

Figure 1.3: This is the only figure

Place the figure here

Figure 1.4: This is the only figure

### 1.1.3 This is a Sub Section in the Chapter

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.

### 1.1.4 This is a Sub Section in the Chapter

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.

Place the figure here

Figure 1.5: This is the only figure

Place the figure here

Figure 1.6: This is the only figure

#### 1.1.5 This is a Sub Section in the Chapter

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.

#### 1.1.6 This is a Sub Section in the Chapter

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.

Place the figure here

Figure 1.7: This is the only figure

Place the figure here

Figure 1.8: This is the only figure

#### 1.1.7 This is a Sub Section in the Chapter

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.

#### 1.1.8 This is a Sub Section in the Chapter

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.



Place the figure here

Figure A.1: Figure in the appendix

nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic



consetum nunc ad valorem.

Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum epsom nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem epsom ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in consetum nunc ad valorem. Lorem ipson dolor sic amet sec in epsom consetum nunc ad valorem.