



University of Essex

School of Mathematics, Statistics  
and Actuarial Science

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CAPSTONE PROJECT DISSERTATION

**YOUR PROJECT TITLE HERE**

**YOUR NAME HERE**

Supervisor: **YOUR SUPERVISOR NAME HERE**

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August 22, 2023  
Colchester

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## Introduction

The first chapter of a Capstone document is usually an overview of what you've done. Often, it is the last chapter you will write.

**Theorem 1.1.** *Sometimes, you will want to state the main results of your document in the introduction.*

*Remark 1.2.* LaTeX is clever, and automatically generates numbers for theorems, remarks and anything else you might want to label. You can give these an invisible name using `\label{your-key}` and referring back to it later using `\ref{your-key}`, for example the following number will be the same as the theorem above: Theorem [1.1](#).

Similarly, you will want to reference external sources as you write your document. The basic way to do this is to add `\bibitem{your-chosen-key}`s at the end of your document (this template has three examples), and use `\cite{your-chosen-key}` to refer to it. For instance, if I wanted to cite the example document by Noether, I can write [\[2\]](#).

Mathematics is added using dollar signs for in-line math, i.e.  $x^2 + y^2 = z^2$ , or by using open-bracket close-bracket for a displayed equation.

$$c^2 = a^2 + b^2 - 2ab \cos \theta.$$

Ordered lists are written using the `enumerate` environment:

1. Hello.

2. This is the second item in my list.

I can also write unordered lists using `itemize`:

- Hello.
- This is now the second item in my list.

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## Your first main chapter

Here is the meat of your document

### 2.1 Your first section of the first main chapter

... goes here.

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## Conclusions

And here is the final chapter showing how clever you are ....

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## Bibliography

- [1] E. Noether. Invariante Variationsprobleme. *Nachr. d. König. Gesellsch. d. Wiss. zu Göttingen, Math-phys. Klasse*, Seite 235-157, 1918.
- [2] A. M. Turing. Computing machinery and intelligence. *Mind*, 59:433–460, 1950.
- [3] J. Fakename. Name of book or article goes here. *Journal name*, page numbers, year, other specific info.