

# **ALGEBRAIC GEOMETRY**

- A Quick Guide -

Huan Q. Bui

Colby College

PHYSICS & MATHEMATICS  
Statistics

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## Preface

Greetings,

This guide is based on MA434: Algebraic Geometry, taught by Professor Fernando Q. Gouvêa. The guide consists of lecture notes and material from *Undergraduate Algebraic Geometry* by Miles Reid. A majority of the text will be reading notes. Some of the proofs won't be complete, but the idea is there for "understanding purposes."

Enjoy!

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## Part 1

# Plane conics



## Part 2

# Cubics & The Group Laws