# Math 125
# Intro to Discrete Math

MATH 125 is primarily taken by students studying computer information systems and computer science. The major goals of the course are to introduce students to formalized logic, basic counting, and recursion.

**Prerequisite:** Any of the following: Principles of Math 12, Foundations of Math 12, Pre-calculus 12, Applications of Mathematics 12, MATH 092, MATH 094/095, MATH 096, MATH 110, MATH 124, or the MSAT placement test. See the UFV Academic Calendar for minimum grade/score requirements.

## Timetabling

Two or three sections of MATH 125 run in the Fall and Winter semesters, and one section in the Summer semester. All sections will run on the Abbotsford campus.

## What next?

- COMP 251 (Data Structures and Algorithms)
- COMP 359 (Design and Analysis of Algorithms)
- COMP 390 (Data Communications)

MATH 125 is required for the following programs: Bachelor of Computer Information System, Computer Information Systems Diploma, Computer Science Major, and Computing Science Minor.

## More information

Official outlines of mathematics courses:
https://www.ufv.ca/calendar/CourseOutlines/PDFs/MATH/

Short descriptions of mathematics courses:
https://www.ufv.ca/calendar/current/CourseDescriptions/math.htm

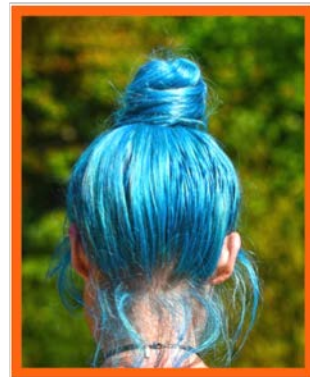## Recursive Analysis

What is the minimum number of moves needed to transfer the tower of 5 disks from the left most pole to the right most if you are only allowed to move one disk at a time and a larger disk can't be placed on a smaller disk? Solve a smaller problem first! Figure out the answer for 4 disks.



## Valid Arguments

If Kelly has blue hair then Kelly lost a bet.
Kelly lost a bet.
Therefore Kelly has blue hair.

Must the third sentence be true if the first two sentences are true? Learn how to use logic to win arguments!