

**DEPARTMENT OF MATHEMATICS**  
**California State University, Bakersfield**  
**MATH 524 – Number Theory and Cryptography**

**Instructor:** Charles Lam

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**Class times:** 6:30-8:30M, SCI 176, 6:30-8:30TR, SCI 125

**Office Hours:** 2-4TR, 6-6:30MTR, or drop by when I am in.

**Text:** An Introduction to Number Theory, Harold M. Stark, ISBN 0-262-69060-8

**Reference Text:** The Code Book: The Science of Secrecy from Ancient Egypt to Quantum Cryptography, Simon Singh, ISBN 0-385-49532-3

**Course Objectives:** This course is a study of number theory. In particular, applications in cryptography will be discussed.

**Web page:** The web page for the course is at <http://www.csub.edu/~clam/math524s07.html>

**Homework:** Every week, homework problems will be assigned and is due on the day of the lab the week after.

**Labs:** Labs are conducted every Monday. You will be using the software Maple to experiment with number theoretic problems.

**Grading:** In addition to homework, there will be a project presentation, one test, and a take-home final exam (cumulative).

Homework .....	20%
Lab .....	10%
Midterm Test .....	15%
Project .....	25%
Final Exam .....	30%