

CIS 313

Cryptography

Course Textbooks:

Modern Cryptography, Applied Mathematics for Encryption and Information Security; Chuck Easttom; First Edition; McGraw-Hill Education, ISBN: 978-1-25-958808-2; Copyright 2016

Available from the [Bellevue University Bookstore](#)

Course Schedule:

Week	Topic	Reading
1	History of Cryptography	Chapters 1 & 2
2	Mathematical Foundations of Cryptography	Chapters 3, 4 & 5
3	Symmetric Ciphers	Chapters 6 & 7
4	Cryptographic Hashes and Asymmetric Ciphers	Chapters 9 & 10
5	Elliptic Curve Cryptography and Random Numbers	Chapters 11 & 12
6	SSL/TLS Protocols, Digital Certificates and VPNs	Chapters 13 & 14
7	Secure email, PGP & S/MIME	Outside Reading
8	Cryptanalysis & Vulnerabilities	Chapters 17 & 18
9	Current Issues and the Future of Cryptography	Chapters 15 & 19

The weekly assignments are opened each week and students have one week to complete them. See the Assignments page in the online classroom for details.

Grades:

Assignments and class participation are assigned points. Grades will be posted before the next week begins. You can view a summary of your grades in the Tools area of the course in My

Grades. Please notify your instructor as soon as possible if you see any errors in your grade summary. It is always easier to fix errors early rather than late in a course.

Course Grading

Quizzes – 10 points each

Forum Original Postings – 15 points each week

Forum Participation – 15 point each week

Weekly Individual Assignments – 50 points each assignment

Communications with Professor:

Please use the discussion boards for general questions about the course or assignments. If you have a question, then it is likely that other students have similar questions. A discussion posting is roughly the equivalent of raising your hand in the classroom. Tip: Start a new thread and use the word 'question' or 'help' in the subject line.

If you have a personal question, suggestion, or problem to resolve, then use email or schedule a visit during office hours. The instructor will respond to student inquiries (email, voice messages, etc.) within two business days (48 hours excluding holidays and weekends).

Voice mail is available. My phone number is in the Contacts area of the course. Please be advised that my voice mail sometimes delays before alerting me to waiting messages. I recommend email for faster responses.

The University policy is for professors to provide grades and feedback on student assignments within one week of submission.

Attendance:

Students are expected to login to the system and contribute to the class on a regular basis. Students must login to the class at least twice each week and contribute to the class discussions. See the specific assignments and due dates in the Assignments area for more details. It will be assumed that students have dropped the course if they do not participate and they do not notify the instructor in the first two weeks.

Late Work:

Pay special attention to the due dates of the various items that will be graded. Late work is generally not accepted unless **PRIOR** arrangements are made with the instructor for special circumstances. It is very important to keep up with your work and with your participation in the course. The professor has the right not to accept any late work.

Expectations for Students

- Students should expect to spend approximately 12 hours per week to complete the activities and assignments in this course.
- Students will log in as often as needed to complete their assignments and progress through the course.
- Students will treat their classmates and the instructor with respect and courtesy.
- Students are responsible for keeping current with the reading assignments and entering the online class prepared to discuss the work assigned.
- Students are responsible for knowing what assignments are due and when.
- Students will submit only their own work and will not commit plagiarism or other acts of academic dishonesty.