

Syllabus

Online IT 262 (CRN #57113) *Computer Networking*

Instructor: James Hart / hart56@unm.edu

Office Room Number: B 123

Instructor's Campus Phone: 505.925.8720 / Mobile 505.239.3435

Office Hours: MW 3:00 – 4:00 PM, TTh 10:00 AM – 3:00 or by appointment

email : Be sure to check your contact information in Banner and keep it updated. UNM email as our official form of course communication. UNM email as our official form of course communication. When communicating with your instructor always include class name in the subject header.

IT 262: Scripting for Network Defense. (3) Scripting programming for security purposes. Students build on prior programming, operating systems, and security knowledge to develop, code, use, and debug new and existing scripts.

TEXTBOOK: Flash drive no textbook required.

ATTENDANCE POLICY: Students are required to do a weekly “check in” through ZOOM or WebEx to address course materials and questions for the week. Time and dates of these “check in” sessions will be determined after class starts. Attendance to these sessions, live or recorded, is mandatory. Unless with instructor permission four missed weekly sessions will result in student being dropped.

GRADING POLICY

Quizzes	10%
Tests	20%
Skill demos	10%
Script Exams	10%
IP Skills	20%
Final	20%
Total	100%

LETTER GRADE DETERMINATION

A 90 +

B 80 -89
C 70 - 79
D 60 - 69
F <60

Academic Integrity

Having academic integrity is paramount to your success in any class. Plagiarism or cheating is not tolerated. Any instance of this will result in a grade of zero for that assignment. Here is the link to the UNM Academic Dishonesty Policy:

<https://policy.unm.edu/regents-policies/section-4/4-8.html>. The policy states:

Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, up to and including dismissal, against any student who is found guilty of academic dishonesty or who otherwise fails to meet the expected standards. Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course.

Academic Dishonesty is defined as:

"Academic dishonesty" includes, but is not limited to, dishonesty in quizzes, tests, or assignments; claiming credit for work not done or done by others; hindering the academic work of other students; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University records.

LIBRARY USAGE: Be sure to always check out the library if you feel you need additional reading materials. They are open for any order suggestions you may have.

STUDENTS WITH DISABILITIES:

If you have a documented disability, the Equal Access Services office will provide me with a letter outlining your accommodations. I will then discuss the accommodations with you to determine the best learning environment. If you feel that you need accommodations, but have not documented your disability, please contact Jeanne Lujan, the coordinator for Equal Access Services at 925-8560 or skirtley@unm.edu.

EQUAL OPPORTUNITY AND NON-DISCRIMINATION

In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered "responsible employees" by the Department of Education (see page 15 - <http://www2.ed.gov/about/offices/list/ocr/docs/qa-201404-title-ix.pdf>). This designation requires that any report of gender discrimination which includes sexual harassment, sexual misconduct and sexual violence made to a faculty member, TA, or GA must be reported to the Title IX Coordinator at the Office of Equal Opportunity (oeo.unm.edu). For more information on the campus policy regarding sexual misconduct, see: <https://policy.unm.edu/university-policies/2000/2740.html>.

Dates for Reference :

August 30	Enrollment Cancellation for non-payment Last Day to add sections or change credit hours via LoboWEB Last day to change grade mode on LoboWEB
September 6	Last Day to Drop with 100% Tuition Refund and without "W" Grade
October 10	University Holiday - Fall Break
November 8	Last Day to Drop without Dean's Permission
November 28	University Holiday - Thanksgiving
December 6	Last Day to Change Grading Options Last Day to Drop with Dean's Permission with form
December 9	Last Day to Withdraw with Student Services Permission

COURSE OUTLINE :

Week 1 / Aug. 19

Review

- IPv4
- IPv6
- TCP ports
- UDP ports
- Review Binary, Hex, Decimal

Week 2 / Aug 26

Cyber Security Survival

- Gateway Connected Globe
- Cyber_101_NIST
- Cyber Security Survival Guide
- More IP, TCP, UDP
- More review of binary

Week 3 / Sept. 2

Labor Day Sept. 2

NMAP

- More Cyber Security
- More Binary
- Port scanning and problems with port scanning
- Platforms
 - Windows
 - Linux
- Specifying target hosts and networks
- TCP SYN and ACK
- DNS