IT 443 Network Security Administration
Fall 2018 Syllabus

Class room: Science Building 3rd Floor Room 143 (S-3-143)
Class time: Tuesday & Thursday 12:30 PM - 1:45 PM
Class websites: Check Blackboard at [https://umb.umassonline.net/](https://umb.umassonline.net/)

**Instructor:** Dr. Xiaohui Liang
- Email: [Xiaohui.Liang@umb.edu](mailto:Xiaohui.Liang@umb.edu)
- Office location: S-3-80
- Office hour: Tuesday & Thursday 2:00 PM - 3:00 PM

**Course Description**
This course covers the fundamental principals and concepts in the field of network security. It is a hands-on study of common security problems and solutions. Major topics include network basics, cryptography basics, authentication, IPsec, SSL/TLS, firewall, email security, and home IoT security.

**Textbook (Suggested)**

**Prerequisite**
IT 341

**Course Work**
- **Lab assignments:** there will be 8 lab assignments counting for 64% of the final grade. Each lab assignment counts for 8%. Tentative lab topics include understanding network packets, encryption/decryption, password cracking, intrusion detection, system monitoring, implementing certificate, implementing VPN, and configuring a firewall. Each assignment will be conducted in teams of two students.
- **Practice:** there will be 3 practices counting for 10% of the final grade. Each practice counts for 3.33%.
- **Quiz:** there will be 1 quiz counting for 5%. Quiz will be one-week before the Final exam.
- **Final exam:** there will be 1 final exam counting for 16%.
- **Attendance:** 5%. The attendance score is the number of attended classes divided by the total number of classes.
Grading Policies

- Lab (64%) + Practice (10%) + Quiz (5%) + Final exam (16%) + Attendance (5%)
- No late submissions of lab reports are accepted.
- No makeup exam.

Accommodations
This class seeks ways to become a working and evolving model of inclusion and universal design for all participants. Individuals with disabilities of any kind (including learning disabilities, ADHD, depression, health conditions), who require instructional, curricular, or test accommodations are responsible for making such needs known to the instructor as early as possible. Every effort will be made to accommodate students in a timely and confidential manner. Individuals who request accommodations must be registered with the Ross Center for Disability Services, which authorizes accommodations for students with disabilities. If applicable, students may obtain adaptation recommendations from the Ross Center for Disability Services, Campus Center Upper Level Room 211, (617-287-7430), [www.rosscenter.umb.edu](http://www.rosscenter.umb.edu). The student must present these recommendations and discuss them with each professor within a reasonable period, preferably by the end of Drop/Add period.

Student Conduct
Students are required to adhere to the University Policy on Academic Standards and Cheating, to the University Statement on Plagiarism and the Documentation of Written Work, and to the Code of Student Conduct as delineated in the catalog of Undergraduate Programs, pp. 44-45, and 48-52. The Code is available online at: [https://www.umb.edu/life_on_campus/policies/community/code](https://www.umb.edu/life_on_campus/policies/community/code).

Additional information
My emails to the class will be sent from the Blackboard system so make sure that your email address is set up correctly with Blackboard. You should visit the Blackboard website regularly for other information including latest announcements about the class. Make sure you check your UMB e-mail address (usually firstname.lastname001@umb.edu) regularly and/or redirect it to another e-mail address you use more frequently. No excuses regarding infrequent use of this e-mail address will be accepted.

Number to letter grade conversion (I reserve the right to lower these standards.)

| P ≥ 90 | A |
| 90 > P ≥ 87 | A- |
| 87 > P ≥ 84 | B+ |
| 84 > P ≥ 80 | B |
| 80 > P ≥ 77 | B- |
| 77 > P ≥ 74 | C+ |
| 74 > P ≥ 70 | C |
| 70 > P ≥ 67 | C- |
| 67 > P ≥ 64 | D+ |
| 64 > P ≥ 60 | D |
| 60 > P | F |