



# CS 315: Computer Security

Instructor: Fengwei Zhang



# Course Content and Grading

## Term Project Track

<b>Topics</b>	<b>Grade</b>
Class Participation	40
Lab 1: Packet Sniffing and Wireshark	60
Lab 2: Secure Coding and Buffer Overflows	60
Lab 3: Secure Coding and Format-String Vulnerability	60
Lab 4: Scanning, Reconnaissance, and Penetration Testing	60
Lab 5: Reverse Engineering and Obfuscation	60
Lab 6: IoT Security and Wireless Exploitation	60
Lab 7: Nailgun Attack	60
Lab 8: Nailgun Defense	60
Lab 9: Dirty COW Attack	60
Lab 10: RSA Public-Key Encryption and Signature	60
Lab 11: Web Security	60
Lab 12: Return-to-libc & Return Oriented Programming	60
Term Project Proposal	60
Term Project Progress Meetings	60
Term Project Presentation	60
Term Project Report	60
<b>Total</b>	<b>1000</b>



# Course Content and Grading

## CTF Track

<b>Topics</b>	<b>Grade</b>
Class Participation	40
Lab 1: Packet Sniffing and Wireshark	60+10
Lab 2: Secure Coding and Buffer Overflows	60+10
Lab 3: Secure Coding and Format-String Vulnerability	60+10
Lab 4: Scanning, Reconnaissance, and Penetration Testing	60+10
Lab 5: Reverse Engineering and Obfuscation	60+10
Lab 6: IoT Security and Wireless Exploitation	60+10
Lab 7: Nailgun Attack	60+10
Lab 8: Nailgun Defense	60+10
Lab 9: Dirty COW Attack	60+10
Lab 10: RSA Public-Key Encryption and Signature	60+10
Lab 11: Web Security	60+10
Lab 12: Return-to-libc & Return Oriented Programming	60+10
Attack-Defense CTF	120
<b>Total</b>	<b>1000</b>



# Grading Scale

The grades for the course will be based upon the percentages given below

A+	97 - 100%	C+	77 - 79%
A	93 - 96%	C	73 - 76%
A-	90 - 92%	C-	70 - 72%
B+	87 - 89%	D+	67 - 69%
B	83 - 86%	D	63 - 66%
B-	80 - 82%	D-	60 - 62%
F	0 - 59%		



Invited lunch/dinner if your final  
score is 96% or more



# Academic Integrity

- Students need to sign the Assignment Declaration Form in your first lecture.
- Our department can refuse students to choose the CSE Major if they do not sign the declaration form.



# More Information on Course Website

<https://fengweiz.github.io/22fa-cs315/index.html>

Email: zhangfw@sustech.edu.cn



谢谢大家！

校园里面碰到，不要装着不认识