Cover Sheet: Request 11460

EEL4XXX Cross Layered Systems Security

Info

Process	Course|New|Ugrad/Pro
Status	Pending
Submitter	Chillingworth,Shannon M schill@ece.ufl.edu
Created	2/8/2017 2:55:18 PM
Updated	5/8/2017 1:04:23 PM
Description of request	New Course Approval

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	ENG - Electrical and Computer Engineering 011905000	Fox, Robert M		2/8/2017
Added 4XXX_Cross_Layered_Sys_Sec_UCC1_Syll.docx					2/8/2017
College	Approved	ENG - College of Engineering	Caple, Elizabeth		2/10/2017
No document changes					
University Curriculum Committee	Recycled	PV - University Curriculum Committee (UCC)	Griffith, Casey Todd	Recycled to college at request of D. Caple.	2/10/2017
No document changes					
College	Approved	ENG - College of Engineering	Dublin, Heidi Dickerson		4/20/2017
No document changes					
University Curriculum Committee	Comment	PV - University Curriculum Committee (UCC)	Case, Brandon	Added to the May agenda.	4/25/2017
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			4/25/2017
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					

Step	Status	Group	User	Comment	Updated
No document changes					
College Notified					
No document changes					

Course|New for request 11460

Info

Request: EEL4XXX Cross Layered Systems Security
Description of request: New Course Approval
Submitter: Chillingworth,Shannon M schill@ece.ufl.edu
Created: 2/8/2017 2:55:18 PM
Form version: 1

Responses

Recommended PrefixEEL
Course Level 4
Number XXX
Category of Instruction Advanced
Lab Code None
Course Title Cross Layered Systems Security
Transcript TitleCROSS LAYERED SYS SEC
Degree Type Baccalaureate

Delivery Method(s) On-Campus
Co-Listing Yes
Co-Listing Explanation Note: This course is co-listed with the graduate class. Students from the graduate section can select to do a research project of their choosing instead of doing the homework assignments. The research paper presentation is mandatory only for graduate students.
Effective Term Fall
Effective Year2017
Rotating Topic?No
Repeatable Credit?No

Amount of Credit3

S/U Only?No
Contact Type Regularly Scheduled
Weekly Contact Hours 3
Course Description Develop an understanding of the principles of computer security, as it crosses layers of abstraction (application, operating system, hardware and network). Students will learn challenges of building secure computer systems with examples and hands-on assignments. Current research on these challenges will be discussed. Students will review and present conference papers.
Prerequisites (EEL 3834 or equivalent) & (EEL 4736 or equivalent)
Co-requisites None
Rationale and Placement in Curriculum This course will build on foundational computing principles by exposing students to principles of computer security and applying concepts to hands-on assignments.
Course Objectives To learn principles of computer security and practical aspects of building secure computer systems. Understand and critique cutting-edge research in this area.
Course Textbook(s) and/or Other Assigned Reading Title: Introduction to Computer Security
Author: Michael Goodrich and Roberto Tamassia
Publication date and edition: 2010, 1st
ISBN number: 0321512944

Weekly Schedule of Topics Course Schedule

1) Principles of Computer Systems Security

(Paper reviews happen weekly)

Week 1: Why computer systems security matter?
Fundamental Concepts: Confidentiality, Integrity, Availability, Authenticity, Anonymity

Threats and Attacks
Week 2: Policy x Mechanism
Goals of Security
Design principles for building secure systems (Saltzer & Shroeder)
Human Issues
Ethics

2) Computer Systems Security at the Application Layer

Week 3: Software vulnerabilities

Week 4 and 5: Case study: buffer overflows (Assignment 1)

Week 6: Malicious software:
Types: Insider attacks, viruses, Trojan horses, worms, rootkits, botnets, spyware, adware, and countermeasures (Assignment 2)
Week 7: Zero-day attacks
Malware detection mechanisms: signature-based and behavioral based (Exam 1)

Web security:

Week 8: Background information on the WWW;
Attacks on clients (session hijacking, phishing, privacy attacks, cross-site scripting and defenses)

Week 9: Attacks on servers (server side scripting, SQL injection, denial of service and defenses).
Case study: SQL injection, XSS scripts (Assignment 3)

3) Computer Systems Security at the Network Boundary

Week 10: Network background: Introduction, protocols, and a brief overview of network layers;
Network attacks and threats: Denial of Service Attacks, DNS attacks, SYN flooding,

Week 11: TCP hijacking, ping of death, Smurf attack, among others
Firewalls and intrusion detection systems.
Case study: SYN flood attacks (Assignment 4)

4) Computer Systems Security at the Operating System Layer

Week 12: Background information on OSes
Access control mechanisms

Week 13: Process, Memory and File system Security

Race conditions

Week 14: Kernel Extensions/Drivers: a convenience or an evil?
Rootkits
Case Study: Time_of_check_To_Time_of_Use (TOCTTOU) vulnerabilities

Week 15: Paper presentations and Exam 2

Links and Policies Attendance Policy, Class Expectations, and Make-Up Policy
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Grading Policy

Percent	Grade	Grade Points
93 - 100	A	4.00
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83 - 86	B	3.00
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77 - 79	C+	2.33
73 - 76	C	2.00
70 - 72	C-	1.67
67 - 69	D+	1.33
63 - 66	D	1.00
60 - 62	D-	0.67
0 - 59 E	0.00	

In order to graduate, graduate students must have an overall GPA and a major GPA of 3.0 or better (B or better). Note: A "B-" average is equivalent to a GPA of 2.67, and therefore, it does not satisfy this graduation requirement.

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assignment." The Honor Code (https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

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Academic Resources

E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. https://lss.at.ufl.edu/help.shtml.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. https://www.crc.ufl.edu/.

Library Support, http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. https://teachingcenter.ufl.edu/.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. https://writing.ufl.edu/writing-studio/.

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https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf.

On-Line Students Complaints: http://www.distance.ufl.edu/student-complaint-process.

Grading Scheme Evaluation of Grades

Assignment Percentage of Final Grade
Programming Assignments (4)
30%

Research paper reviews	10%
Exam 1	20%
Exam 2	25%
Presentation	15%
TOTAL	100%

Note: This course is co-listed with the graduate class. Students from the graduate section can select to do a research project of their choosing instead of doing the homework assignments. The research paper presentation is mandatory only for graduate students.

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73 - 76	C	2.00
70 - 72	C-	1.67
67 - 69	D+	1.33
63 - 66	D	1.00
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Instructor(s) Daniela Oliveira

Cross Layered Systems Security

EEL 4XXX Section XXXX
Class Periods: TBD
Location: TBD
Academic Term: TBD

Instructor:

- Name: Daniela Oliveira
- Email Address: daniela@ece.ufl.edu
- Office Phone Number: 352 392 6618
- Office Hours: TBD

Teaching Assistants:

Please contact through the Canvas website

- TBD

Course Description

(3 credits) Develop an understanding of the principles of computer security, as it crosses layers of abstraction (application, operating system, hardware and network). Students will learn challenges of building secure computer systems with examples and hands-on assignments. Current research on these challenges will be discussed. Students will review and present conference papers.

Course Pre-Requisites / Co-Requisites

(EEL 3834 or equivalent) & (EEL 4736 or equivalent)

Course Objectives

To learn principles of computer security and practical aspects of building secure computer systems. Understand and critique cutting-edge research in this area.

Materials and Supply Fees

None

Professional Component (ABET)

This course consists of 1.5 credits of Engineering Design and 1.5 credits of Engineering Science

Relation to Program Outcomes (ABET)

Engineering Criteria

a - an ability to apply knowledge of mathematics, science, and engineering
b - an ability to design and conduct experiments, as well as to analyze and interpret data
c - an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
d - an ability to function on multi-disciplinary teams
e - an ability to identify, formulate, and solve engineering problems
f - an understanding of professional and ethical responsibility
g - an ability to communicate effectively
h - the broad education necessary to understand the impact of engineering solutions in global, economic, environmental, and societal context
i - a recognition of the need for, and an ability to engage in life-long learning
j - a knowledge of contemporary issues
k - an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

EE Program Criteria

EE1 - knowledge of probability and statistics, including applications

EE2 - knowledge of mathematics, basic and engineering sciences necessary to analyze and design complex systems

Required Textbooks and Software

Title: Introduction to Computer Security
Author: Michael Goodrich and Roberto Tamassia
Publication date and edition: 2010, 1st
ISBN number: 0321512944

Course Schedule

1) Principles of Computer Systems Security

(Paper reviews happen weekly)

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Week 11: TCP hijacking, ping of death, Smurf attack, among others
Firewalls and intrusion detection systems.
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Week 12: Background information on OSes
Access control mechanisms

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Race conditions

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Cross Layered Systems Security

EEL 5XXX Section XXX
Class Periods: TBD
Location: TBD
Academic Term: TBD

Instructor:

- Name: Daniela Oliveira
- Email Address: daniela@ece.ufl.edu
- Office Phone Number: 352 392 6618
- Office Hours: TBD

Teaching Assistants:

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Course Pre-Requisites / Co-Requisites

- Programming knowledge & Principles of computer systems design knowledge

Course Objectives

To learn principles of computer security and practical aspects of building secure computer systems. Understand and critique cutting-edge research in this area.

Materials and Supply Fees

None

Required Textbooks and Software

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Author: Michael Goodrich and Roberto Tamassia
Publication date and edition: 2010, 1st
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4) Computer Systems Security at the Operating System Layer

Week 12: Background information on OSes
Access control mechanisms

Week 13: Process, Memory and File system Security
Race conditions

Week 14: Kernel Extensions/Drivers: a convenience or an evil?
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Research paper reviews	10%
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