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# SYLLABUS PART ONE<sup>1</sup>

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COURSE TITLE AND COURSE NUMBER: ECE 8910/9910: Graduate Research  
Section 037

TERM: Fall 2021<sup>2</sup>

CLASS MEETING TIME AND PLACE: **TBD**

TIME TO WAIT: 15 minutes wait is preferred. Class attendance is not considered mandatory. If students are not available for class, they are still responsible for the material covered in class. Note that fee reimbursement may depend on the last date students attended class. Students are considered responsible for documenting when they stop attending class.

INFORMATION ON MODALITY: In person is the default modality, but students may access the system remotely. The instructor may also use remote access when necessary (travel, illness, ...) Some sessions will also be flipped classrooms where students are given media (readings, podcasts, videos, ...) to absorb before class and lectures are devoted to discussions.

INSTRUCTOR NAME: R. R. Brooks

Professor

(He/Him/His)

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PGP 1: 955B 3813 41C0 9101 3E6B CF05 02FB 29D6 8E1E 6137

PGP 2: FC15 BAF0 4296 B47E 932A 9DB3 D41B 81AF C6EA 90F6

Grader: Chunpeng Shao

Email: [chunpes@g.clemson.edu](mailto:chunpes@g.clemson.edu)

Office hours: TBD

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<sup>1</sup> Version 0.1 Aug 19, 2021—Course syllabus contents subject to change in response to changing circumstances. The most current syllabus version will be posted on Canvas.

<sup>2</sup> See <https://www.clemson.edu/registrar/academic-calendars/calendars.html?year=2021&semester=fall> for official university start date and end date and other major dates from the academic calendar (last day to drop without a W, fall break, etc.)

DEPARTMENT AND COLLEGE OF INSTRUCTOR:

INSTRUCTOR EMAIL: [rrb@acm.org](mailto:rrb@acm.org) I will attempt to respond to email inquiries within 36 hours, excluding weekends, university holidays, and travel.

UNIVERSITY OFFICE PHONE: 864-656-0920

OFFICE ADDRESS/OFFICE NUMBER: 313-C Riggs, Main Campus, Clemson, SC

Office Hours: 16:00 to 17:00 Tuesdays at <https://clemson.zoom.us/my/la.pesto>  
Or by individual arrangement. In person office hours will take place at the time and place we agree on (Preferably outdoors).

INSTRUCTOR PHOTO:



FIGURE 1 PICTURE OF R. R. BROOKS

OFFICE AND/OR CLASSROOM MAP:

<https://www.campus-maps.com/clemson-university/riggs-hall/>

COURSE DESCRIPTION Hands-on practicum in Computer Engineering research .

VALUE STATEMENT

Current laws make computer hardware, software and service providers not liable for security Research is essential for society and technology to advance.

COURSE OVERVIEW

LEARNING OUTCOMES

At the completion of the course the student will:

- o Perform research,
- o Publish results,
- o Explain the role of ethics in system design/implementation.

PREREQUISITES instructor permission.

## REQUIRED MATERIALS

- o Dependent on project.

## REQUIRED TECHNICAL SKILLS

For technical assistance with the course site, students should contact [ithelp@clmson.edu](mailto:ithelp@clmson.edu), visit [CCIT's website](#), or contact the grader.

## LEARNING ENVIRONMENT

A basic understanding of Linux, computer architecture, TCP/IP, and programming is probably needed. Some understanding of how assembly and computer binary works would be useful. We have tried to make the course self-contained, but challenging. Creativity is required, as well as the ability to decipher how and why computers behave the way they do. It is hard to list prerequisites, since much of what I ask you to do is the opposite of accepted best practices. You have been taught for years to not do what I want you to do.

## MAJOR ASSESSMENT/GRADING ACTIVITIES AND TOPICAL OUTLINE

[Dependent on project.](#)

### Grading System

: (Percentages. For undergraduates, points and percentages are identical. For graduate students, they are quite different.)

A – 90 or above

B – 80 to 89

C – 70 to 79

D – 60 to 69

F – Below 60

Deadlines are fixed. No extensions will be given. No late assignments will be accepted. This means that assignments are due at the start of class. No credit will be given for a late assignment. Printers printing slowly are not an adequate excuse for a late assignment. Presentations are interactive. Students must be prepared to answer questions from the instructor and other students. Documents must be professionally prepared. Sloppy and poorly written

## GRADING POLICIES

**Objectives and outcomes** Assignments will include:

- Technical deliverables (system installation, implementation, test, and maintenance).
- Technical reports and design documents.
- Satisfy sponsor requirements, publish documents,
- Technical presentations.

Students are expected to create and deliver professional quality materials. Graduate students need to implement a security research project and present their results to the class. The security project should be at a level suitable for submission to a professional conference.

#### NOTIFICATION OF ABSENCE:

The **Notification of Absence module in Canvas** allows students to quickly notify instructors (via an email) of an absence from class and provides for the following categories: court attendance, death of immediate family member, illness, illness of family member, injury, military duty, religious observance, scheduled surgery, university function, unscheduled hospitalization, other anticipated absence, or other unanticipated absence. The notification form requires a brief explanation, dates and times. Based on the dates and times indicated, instructors are automatically selected, but students may decide which instructors will receive the notification. This does not serve as an “excuse” from class. It is a request for an excused absence and students are encouraged to discuss the absence with instructors, as the instructor is the only person who can excuse an absence. If students are unable to report the absence by computer, they may reach the Office of Advocacy and Success via 864.656.0935. Students with excessive absences who need academic or medical assistance can also contact the Office of Advocacy and Success.

Any exam that was scheduled at the time of a class cancellation due to inclement weather will be given at the next class meeting unless contacted by the instructor. Any assignments due at the time of a class cancellation due to inclement weather will be due at the next class meeting unless contacted by the instructor. Any extension or postponement of assignments or exams must be granted by the instructor via email or Canvas within 24 hours of the weather-related cancellation.

#### COURSE FEEDBACK

Please feel free to provide feedback at any time. Requests for suggestions on how to improve the class will be provided.

#### **How to be successful in this course**

Honesty, openness, and respect are expected from everyone in the course. Feel free to be creative, experiment, and try new ideas. Do not damage the property, or privacy, of others. That is way too easy to do, and there can be legal consequences.

#### Student's Responsibility

- Be prepared for all classes
- Be respectful of others
- Actively contribute to the learning activities in class
- Abide by the University Academic Integrity Policy
- Do your own work
- Be creative

Ask questions when you are confused, or reach a point where you do not know what your next wove will be. The course is designed to make that occur).

#### Instructor's Responsibility

Be prepared for classes

Evaluate all fairly and equally

Be respectful of all students

Create and facilitate meaningful learning activities

Behave according to University codes of conduct

Provide open and honest feedback to student work and questions.

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