CPSC 4910 Seminar in Professional Issues II

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Agenda

- Introductions
- Syllabus Review
- Course Overview

Course Instructor
Professor Van Scoy

- Office Location: 226A McAdams Hall
- Office Phone: USE EMAIL!
- Email Address: vanscoy@clemson.edu
- Office Hours:
  - Monday from1pm-3pm & Tuesday from 8am-10am
  - By appointment

Brief Instructor Bio-1

- Education:
  - B.A: Hiram College
    Computer Science & Physics
  - M.S: Johns Hopkins University
    Applied Physics
  - MS: University of Pittsburgh
    Computer Science

Brief Instructor Bio-2

- Experience:
  - Senior Software Engineer at Westinghouse Electric Corp
  - Senior Member of Technical Staff at the Software Engineering Institute (at CMU)
  - Founder, President & Software Engineer at TTFN Software
  - CTO & VP at Global Emergency Resources
  - Faculty member at Pittsburgh Technical College
  - NOW a faculty member at Clemson University!

Teaching Assistant
Geoff Musick

- Email Address: gmusick@clemson.edu
- Office Hours: To Be Announced

Course Structure

- Lecture: 11:15am-12:05pm on Mondays & Wednesdays
- Labs: Held for 50 minutes, 2 times per week, on Tuesday and Thursday at the time you signed up for
- Attendance is **required** in both lecture and lab
  - https://checkin.cs.clemson.edu/
- Lab **will** meet this week

Weekly Plan

- 1 Lecture per week (starting week 4)
  - Usually on Monday
  - Attendance is expected on lecture days…and will be taken…randomly
- Tuesday (Lab)
  - Sprint planning and team collaboration
  - Attendance is expected
- Wednesday (Class) & Thursday (Lab)
  - Sprint Demo & team collaboration
  - Alternate weeks for W demo in class or Th demo in lab
  - If your team demo's on W…then Th lab is for team collaboration
  - If your team demo's on Th…then W class is for team collaboration
  - YOU STILL NEED TO COME TO CLASS OR LAB!
- This will all make more sense once you see the Agile w/Scrum Process

Communication

- Canvas
- Email
  - vanscoy@Clemson.edu
- Face-to-Face
  - Before/After Class
  - Office Hours
  - By appointment

Email Etiquette

Send

From ▾ vanscoy@clemson.edu

To... vanscoy@clemson.edu

Cc...

Subject CPSC <COURSE NUMBER> Question

Prof. Van Scoy,

This is <YOUR NAME HERE> from CPSC <COURSE NUMBER>. I have a question about….be as specific as possible.

<YOUR NAME HERE>

Course Syllabus

- The full syllabus is available via Canvas….READ IT!
  - Course Description
  - Course Outline
  - Learning Outcomes
  - Grading
  - Course Materials
  - Communications

Course Description-1

- Learn and practice the principles of professional software development
- Discuss standards for professional behavior, the professional's responsibility to the profession, and techniques for maintaining currency
- Discusses ethical issues in the design and development of computer software

Course Description-2

- This is a semester long, team project…in teams of 3-4 people
- All the teams will be starting from the same project specification (much like an RFP)
- But, it is your team's job to interpret the spec as you design and implement the project
- The teams will not be collaborating, much like a competitive bid process
- I will be acting as the client for this project

Course Outline

- Effective teamwork
- Agile Project Management
- Software Testing
- Professionalism
- Professional ethics
- Professional development and lifelong learning
- Work-life balance
- Special topics (e.g., entrepreneurship, comparing and negotiating job offers)

Learning Outcomes

- Discuss common behaviors that contribute to the effective functioning of a team.
- Describe the mechanisms that typically exist for a professional to keep up-to-date.
- Identify ethical issues that arise in software development.
- Work in a professional, team-based project that meets standards.
- Describe ways to manage work-life balance.
- Define and implement a software system based on specifications.

Grading

Number & Type of Assessment	Points per Assessment	Total Points
Attendance/Participation (1)	100 points	100
Weekly Team Agile Planning (8-10)	10 points	100
Weekly Team Agile Demo (8-10)	10 points	100
Personal Agile Planning & Code (8-10)	10 points	100
Quizzes & Assignments	5-20 points	100
Midterm Project Presentation	100 points	100
Team Project and Demo (1)	600 points	600
	Total Points	**1200**

Exams & Quizzes

- You must be here!
- In-class & Closed book
- Requires your laptop
- Family or medical emergencies are the only valid reasons for missing an exam or quiz
- If you know you have a conflict, talk to me…AHEAD of time

Project

- Weekly Team Agile Planning
- Weekly Team Agile Demo
- Personal Agile Planning & Code
- Team Project
  - this will comprise 50% or more of your final grade!

Materials

- Reading selections will be assigned as needed.
- All readings will be available for free via Safari Books Online and the CU Library
- https://libraries.clemson.edu/news/2018/10/02/safari-books-online/
  - You will need to create an account to sign in and access the content
  - https://learning.oreilly.com/playlists/5bd5aa1e-1e38-440c-b9d9-e34a7341b1ca

Professional Society Membership

- Institute of Electrical and Electronics Engineers (IEEE) https://www.ieee.org/
- Association for Computing Machinery (ACM) https://www.acm.org/
- large collection of publications and other resources
- support professional growth
- professional networking
- It is strongly recommended that you have a membership in one of these organizations!

Laptops & Mobile Devices

- Bring your laptop to class…but keep it shut until it's needed
  - You need it for class exercises, lab, scrum, quizzes and exams
- Mobile device should be silenced and store BEFORE class starts
- No recording of lectures without permission

Academic Integrity

- http://www.clemson.edu/academics/integrity/
- If you have a question if something is academically dishonest, please contact me as soon as possible

As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a "high seminary of learning." Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form.

Syllabus

- Read the syllabus
  - It includes other items which you may want to know
- Remember…this is all subject to change!

Team Project

Week	Activities
Weeks 1-3	Team Selection, Project Planning & Development Setup THERE WILL BE NO CODING BEFORE WEEK 4!
Weeks 4-13	Work in a team environment with minimal supervision Plan, Code & Test in APM
Weeks 14-16	Final Project Presentations

Next Steps-1

- We will be having lab tomorrow to setup your teams
- Choose your Team
  - There should be 3-4 people on a team
  - There must be a team leader
  - While it might be fun to only have friends on your team…choose wisely
  - Once the project planning and implementation begins, it will be impossible to change teams
  - Team will jointly design, implement, test and demo the project
  - Each team member will evaluate their own and their teammates contribution to the project
  - I reserve the right to rearrange the teams

Next Steps-2

- As a team, consider what technologies you have at your disposal for a "large" project
  - You can choose to use technologies you know
  - OR you can choose to take a risk and try a new technology
  - FYI…there will be a database required for this project
- Complete and upload your skills inventory before next class
- Complete and upload your team summary before next class (only one submission per team is needed)

Next Steps-3

- We will spend the next 2 classes talking about
  - the project
  - your teams

Questions?