

Syllabus  
Software Engineering Methodology  
CS 6/73901:  
Spring 2018

### Instructor Information

Dr. Gregory S. DeLozier

[gdelozie@kent.edu](mailto:gdelozie@kent.edu)

Office Hours: 6-7PM, 9:45-10:45PM, MW in classroom or CS213 as requested

### Outcomes and Expectations

Students in this course will learn the concepts and methods of software engineering in a practical, hands-on setting.

- Learn some real-world practices & tools
- Learn software engineering concepts
  - The practice of designing and building software
  - Connecting software to business needs
- Learn some project management skills
  - Agile Methodologies
  - Project Management
- Create a commercial-grade software product
  - Form a company
  - Do something useful on the web
  - Make something useful on the web
  - Market and launch the product

### Required and Optional Textbooks and Materials

There is no required textbook. There will be reading assigned from web, academic, and industry sources.

Additional online reading will be assigned.

An account at [www.pythonanywhere.com](http://www.pythonanywhere.com) is required. This costs \$5/month.

An account at DigitalOcean will be required. This cost is variable, expect about \$20/month. A personal computer running Python and Chrome or Firefox is required.

### Course Prerequisites

This course requires intermediate programming skills. Familiarity with Python and web programming is useful. Students who do not have this experience will need to learn these as we go. This may be challenging.

This course also requires basic familiarity with Unix/Linux shell concepts. These can be caught up as we go, but they are not extensively taught in class.

## **Enrollment/Official Registration**

The official registration deadline for this course is 1/21/2018 University policy requires all students to be officially registered in each class they are attending. Students who are not officially registered for a course by published deadlines should not be attending classes and will not receive credit or a grade for the course. Each student must confirm enrollment by checking his/her class schedule (using Student Tools in FlashLine) prior to the deadline indicated. Registration errors must be corrected prior to the deadline.

## **Class Calendar**

Lectures MW 7-8:15

Topics:

- About the course
- Setting Up Organizations
- Engineering Practices
- Intro to Processes
- Advanced & Lean Processes
- Requirements
- Risk Management
- Estimation
- Business Planning
- Architecture Modeling
- Testing
- Behaviour Driven Testing
- Security & Threat Models
- Delivery Methodologies
- Operational Consideration
- Maintenance and Evolution

## **Withdrawal Deadline**

The course withdrawal deadline is 3/25/2018.

## **Grading Policy**

Homework. Homework is not accepted late.	20%
Midterm. Online, open handwritten notes.	20%
Application project completed and delivered.	30%
Final exam. Probably online, Google Forms.	30%

Letter Grades: 90% = A, 80% = B, 70% = C, etc.

## **Class Attendance Policy**

Students are encouraged to attend class. If class is missed, students are still responsible for course content, notes, etc. The class slides are not guaranteed to cover all important content from the class session.

There may be extra credit opportunities during class sessions. These will not be announced in advance.

## **Cheating and Plagiarism**

University policy 3-01.8 deals with the problem of academic dishonesty, cheating, and plagiarism. None of these will be tolerated in this class. The sanctions provided in this policy will be used to deal with any violations. If you have any questions, please read the policy at

<http://www.kent.edu/policyreg/administrative-policy-regarding-student-cheating-and-plagiarism>

or ask me at any time.

## **Students with Disabilities**

University policy 3-01.3 requires that students with disabilities be provided reasonable accommodations to ensure their equal access to course content. If you have a documented disability and require accommodations, please contact the instructor at the beginning of the semester to make arrangements for necessary classroom adjustments. Please note, you must first verify your eligibility for these through Student Accessibility Services (contact 330-672-3391 or visit [www.kent.edu/sas](http://www.kent.edu/sas) for more information on registration procedures).

## **Additional Class Policies**

### **Class Conduct**

- The usual rules about adult behavior apply.
- Keep the laptop and phone distraction to a minimum when we're doing things together.
- We will have one or two breaks. If you need to leave between breaks, be discreet.

### **Additional Class Policies (continued)**

#### **Extreme Circumstances**

- If something unusual is happening at the university, we might not have class if the university is closed.
- If something unusual happens to me, and I'm not here by 7:30, we won't have class.
- If either one of these happens, adjusted homework and lecture notes will be posted on the web within 24 hours. You will still be responsible for getting assignments done.

#### **Identification of Submissions**

- Everything you want graded must be clearly identified with your KENT ID.
- This is the personalized part of your kent email address.

[gdelozie@kent.edu](mailto:gdelozie@kent.edu) → "gdelozie" is my KENT ID

- I am not interested in your student numbers, etc.
- Get familiar with what Kent thinks your name is and use that when necessary.

If Kent thinks your name is this:

First: Alpha Beta  
Last: Gamma Delta

Then please turn in as :

Alpha Beta Gamma Delta or Alpha Gamma Delta

And *\*not\**

Beta Delta Gamma  
Gamma Delta Beta Alpha  
etc.

Use *\*at least some\** of your "first" name and *\*all\** of your last name.

I know that traditions and cultural standards vary. Here, be consistent with Kent.

#### Content of Submission

- Any content submitted to Blackboard must consist of *\*one\** PDF file.
- Any additional content must either be submitted by arrangement
- ...Or submitted via a link in the PDF file.