Dr. Erin Colvin
Computer Science Instructor

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Western Washington University

CS 492 –Software Project 2

Time: MWF 3:00 PM to 3:50PM

Office Hours: MWF: 10AM-1PM TR: (Varies, make apt if needed)

The information in this syllabus is subject to change, any changes will be noted in class.

Course Description: Software Project 2

Part 2 of the 3-part Software Project Course Series. This course will cover software life cycle models, software design, and testing. Topics will include but will not be limited to: software life cycle, software testing, software design, software life cycle models. Students will create all documents needed at each phase of the course.

Prerequisite(s):

CS 491

Text (Not Required):

There will be many text that I will use and reference in the class but will not be required for purchase, all information students need will be available online in canvas. All texts will be available for reference in my office to borrow.

Course Objectives:

1. Ability to work in small groups.
2. The ability to communicate effectively to others in the workforce and professionally to customers what is needed and work progress.
3. Basic understanding of the issues and techniques in software design.
4. Basic understanding of the professional, ethical, legal, security and social issues to be considered during system design.
5. The ability to execute a software design, including architecture, subsystem, component, and user interface design based on a set of requirements and document the results of these activities
6. The ability to write in a technical manner and cite references correctly.

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Grade Distribution:

Participation 25%	Written work 50%	Project/Research 25%

Grade %	Letter
90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

Participation:

Your participation this term is dependent on your attendance. There will be 21 classes held (including the final) and the participation will take into consideration the feedback from your project review, and how many classes you have attended.

18-21 = A or 5 points

15 – 17 = B or 4 points

11-15 = C or 3 points

0-10=F or 0 points

Course Work:

The other half of the grade will be on the papers turned in individually. Even though they will be reflective of the project, they will be an individual project expected to be done individually. Any student not adhering to the Universities Academic Dishonesty policy will be dealt with appropriately.

The projects will be graded by myself and the other students in the class. At the end of the term each group should put together a presentation of the

current state of their project, where they intent to take it in the next course and any issues or items that they may be working on that they didn't take into consideration that may have come up. Presentations should include a power point, or product

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demonstration, detailed requirements from the customer, detailed list of how or how you are not able to meet those requirements and what you will do instead and a detailed test plan.

I will also be covering some material in class that will help you in your future with technical writing. All writing will use APA format and I expect students to research, on their own, if they are unsure of this type of formatting, as I will not cover the formatting style, but rather the technical writing material only.

In this class, I do not give out examples of how things are done, but rather templates of how work should be done. Students should be able to research on their own and in their own time how to do something that we cover in class if they are unfamiliar with a specific topic. Providing an example is only allowing students to copy work but providing students with a path to where they can find information about how to do something is providing a learning opportunity. I also do not post class notes or lectures online, it is the student's responsibility to get the class notes from another student if they miss class. All work will have a rubric posted so student's know what is expected before handing anything in, I highly recommend reading over all rubrics before starting any work because I do not allow do overs.

*All work and deadlines subject to change.

Week	Everyone	Projects	Research
1	Timesheet	SRS (from 491)	Research recap
2	Timesheet/1.5 page paper		
3	Timesheet	Software Design Doc (first draft)	Research paper (first draft)
4	Timesheet RISK/Contract /		
5	1.5 page paper/ Timesheet		
6	Timesheet	Use Case or Data flow diagram	Methodologies
7	Bio and Cover sheet/Timesheet		
8	Timesheet/testing presentation	Software Design Document (final draft)	Research paper (final draft)
9	3 page paper/ Timesheet		
10		Presentation	Presentation

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Course Policies:

- **Late work**: **Late work is not allowed, and will not be accepted for any reason. Any work submitted after the due date will receive a grade of a 0**. It is the student's responsibility to make arrangements to get all work in on time and to manage their time in accordance with the due dates set forth by the instructor.

- **Attendance:** Attendance in the class is very important, however I understand things come up and students may have to miss a class here and there. I will only lecture on MW, Fridays will be for group meetings but we will have class on Fridays if we do not have class on Monday. All students are expected to attend all group meetings outside of the classroom when they are scheduled. It is up to the group to decide the best time to meet. **Attendance at every lecture will be taken and will make up your participation portion of your grade.**

- **Classroom behavior**: Students are expected to treat other students, and the instructor with respect. Any disruptive behavior is inappropriate in the classroom, and the discussion boards. If you fail to comply with this policy you may be asked to leave the classroom, or have your post deleted. If the behavior is a continuous thing, discipline action through the University may be necessary.

- **Academic Dishonesty**: Academic dishonesty is defined in the University Catalog as misrepresentation by deception or by other fraudulent means which comprises an instructor's ability to fairly evaluate a student's work or achievement. Any student who violates the University policy on academic honest or the specific rules above will receive an F for the course, no questions. Please refer to the University Catalog for further information and do not hesitate to ask me if you are unsure of anything related to academic honesty.

- **Course Accommodations**: Any students requesting a disAbility accommodation, please contact the disAbility Resources for Students office 360-650-3844, or student assistance related to required course procedures, please contact the Student Life office 360-650-3706. Or see me if you have any questions.

Course Coordinator: Dr. Christopher Reedy, Senior Instructor WWU

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Writing assignments for CS492

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You will need to go to https://www.prismnet.com/~hcexres/textbook/models.html and read the section 'report and section introductions' before writing your Software Design Document.

- First short paper assignment (minimum of 2 pages cut can be as long as needed). You will write a progress report to your customer (individually) stating how you are progressing on your project, etc. Example can be found here https://www.prismnet.com/~hcexres/textbook/models.html

- Second short paper, minimum of 3 pages, individually, you will write a proposal paper. This should be about your product or research. You will write this to your customer or to your researcher proposing this new idea or product be implemented as if you had come up with it and you want them to implement it. So, you will need to describe why it should be done and why it is important. Researchers may write to other entities if it fits with your research, ie. another university who may want to use the blood glucose device you are researching. Please come see me if you have questions before you get started. You may or may not have references in this paper, if you say something that is not an everyday known fact then you should cite where you got your information (see paper 3 about references) A template is uploaded under examples in canvas and an example can be found here: https://www.pandadoc.com/technical-proposal-template

- Lastly, there is a longer (minimum of 4 pages) paper due which will be a casual discussion about the benefits of including a technical STEM program in elementary schools, such as hour of code, or coding apps or coding robots, or Lego Mindstorm programs OR you can choose to do a casual discussion about the benefits of implementing your project or research, either way, you must do some outside research, include your sources, cite them and discuss your position on this important technical piece being implemented. This paper should have at least 3 references NOT including Wikipedia (Wikipedia should never be used in professional writings). For a good source, use scholar.google.com and search for terms. Again an example can be found at https://www.prismnet.com/~hcexres/textbook/models.html

All papers must be in APA format, if you are not familiar with APA format please look it up there is a great resource website at: https://owl.english.purdue.edu/owl/resource/560/01/

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OR the book APA looks like this, and I actually have this exact copy in my office which you are welcome to come and borrow.