

**University of Detroit Mercy**  
**College of Engineering and Science**  
**Department of Mathematics, Computer Science and Software Engineering**

**CSSE-4952 01 Senior Design Project II (3 cr.)**  
**Winter 2016-17**

**DESCRIPTION OF COURSE:** In this course, teams will complete the development of the software system. To this extent, students will write all the programs, perform static code analysis, construct the databases (if needed), test the programs and the entire system, provide configuration and maintenance plans, document the system, and apply the Software Engineering Code of Ethics. Students should take this course in Term II of their final year of study.

**PREREQUISITES:** CSSE-4951.

**PREREQUISITES BY TOPIC:** None

**REQUIRED TEXT:** No text is required

**INSTRUCTOR:** Dr. Kevin Daimi, Room E324. Tel: 313-993-1060.  
Email: [daimikj@udmercy.edu](mailto:daimikj@udmercy.edu).  
Web page: [daimikj.faculty.udmercy.edu](http://daimikj.faculty.udmercy.edu)

**OFFICE HOURS:** Tuesday and Thursday 02.00-3.00 pm. Or contact me to schedule an appointment.

**LECTURE:** TR 11.20-12.35 PM, Room E223.

**COURSE OBJECTIVE:** To allow students to practice software development and implementation skills they obtained during their course of study, and improve students' testing, configuration, and maintenance skills.

**COURSE OUTCOMES:** Upon completion of the course, students will be able to\*:

1. Work in teams on assignments serving industry, government, health, and education (d).
2. Translate their design to coding using suitable programming languages, techniques, and tools and re-design if needed (a, b, c, i, j, k).
3. Exercise and apply various testing techniques to their systems (a, b, c, i, j, k).
4. Analyze code using code analysis tools (a, b, i).
5. Value the professional, ethical, legal, security, and social issues and responsibilities of computing (e).
6. Recognize the local and global impact of computing on individuals, organizations, and society (g).

7. Effectively communicate their software engineering outcomes both orally and in writing (f).

*\*Letters refer to ABET Computer Science Program Outcomes*

**COMPUTER USAGE:** Students will implement their projects using various software tools depending on the application area of the project.

**COURSE ASSIGNMENTS:**

| Assignment        | Topic Covered                       | Assign Date | Collect Date |
|-------------------|-------------------------------------|-------------|--------------|
| Extended Abstract | Selected Project Topic in CSSE-4951 | 01/10/2017  | 03/14/2017   |
| Final Project     | Selected Project Topic in CSSE-4951 | 01/10/2017  | 04/18/2017   |

**GRADING:**

|                    |       |
|--------------------|-------|
| Comprehensive Exam | 30%*  |
| Project            | 70%** |

\* Topics will be announced

\* \*Preparation 15%, Discussion 25%, Testing 30%, Quality 30%

Final Grade= Comprehensive Exam Score + Project Score x 0.7

**EXAM SCHEDULE:  
(TENTITATIVE)**

Comprehensive Exam: **Tuesday, March 28, 11.20-12.20 p.m.**

Discussion & Testing of Project†: **Monday, April 24, 2017** (*Testing Schedule will be distributed*).

†*A group of Computer Science/Software Engineering faculty and Members of the Department Advisory Council will discuss and test the projects.*

**GRADING SCALE:** A 95-100, A- 90-94, B+ 85-89, B 80-84, B- 75-79, C+ 70-74, C 65-69, C- 60-64, D+ 55-59, D 50-54

**IMPORTANT DATES:**

|            |  |
|------------|--|
| January 15 | Last Day to Add a Class                |
| January 15 | Last Day to drop a Class without a “W” |

|             |   |
|-------------|---|
| January 16  | Martin Luther King Jr. Holiday (No Classes) |
| February 01 | Mid-Term Grades Due                         |
| March 06-11 | Spring break                                |
| March 13    | Advising for Fall Term Begins               |
| March 20    | Registration for Fall Term Begins           |
| March 30    | Last Day to Withdraw from Class             |
| April 14-16 | Easter Recess (university Closed)           |
| April 25-29 | Final Exam Week                             |

**IMPORTANT:** Students must prepare a poster for presenting their projects at the University Poster Presentation Event, which will take place in November. Posters will be checked and approved by the instructor. The Poster should be submitted by April 14. Failing to do that will result in deducting 10 points from your Term Project.

***NOTE***

Your final project report should include all the chapters from your CSSE-4951 project and the new chapters for CSSE-4952. You will need the Abstract and Conclusions to be representative of the whole project. You must have a chapter in your final report on Software Engineering Ethics. You will need to relate your design project to the IEEE Software Engineering Ethics requirements. This chapter has a weight of 10%.

**ATTENDANCE/PARTICIPATION**

Students are expected to attend class on a regular basis and participate in the discussions. They are responsible for all the material presented therein. Formal attendance records will not be maintained; however, attendance is highly correlated with performance on the projects and the exams.

The instructor will attempt to make reasonable accommodations for students who miss a class due to illness, death in the family, or other legitimate reasons. However, students who are forced to miss several classes will have difficulty completing the course in a satisfactory manner. Make Up exams will only be given to students who miss an exam for legitimate reason (as defined above) and who notify the instructor in advance.

**CLASSROOM DECORUM**

- Students are not allowed to talk to their classmates at any time unless permitted by the instructor.
- Cell phones are not allowed to be used and should be put away. They should be on silent mode.
- Computers can only be used to follow the PowerPoint slides of the class. Students can use their computers for other purposes when allowed by the instructor.
- Under normal road and weather conditions, students are allowed into the classroom no more than 5 minutes after the class starts.

## **CLASS CANCELATION**

If a class is cancelled, students will be informed the day before or early morning of the day of the class. This applies to any other important messages.

## **ASSIGNMENT DEADLINES**

Enough time has been allocated for both the term papers and projects to be completed. If students follow instructions, they should be able to complete the assignments 1-2 weeks before the deadlines. Late papers and projects will not receive full credit. Unless otherwise specified, papers turned in late may lose as much as 10 points, and projects turned in late may lose as much as 20 points. Papers /projects may not be accepted at all if submitted a week after the deadline.

## **PROJECT/PAPER GROUP FORMATION**

Students can form their own teams for both the group paper and project. The instructor specifies the size of the groups. The instructor may make some changes to the groups if needed.

## **STUDENTS WITH DISABILITIES**

If you need an accommodation because of a disability, have emergency medical information to share, or if you need special arrangements in case the building must be evacuated, please contact:

Emilie Wetherington, Director  
Disability Support Services.  
McNichols Campus Library, Room 328  
Email: [gallegem@udmercy.edu](mailto:gallegem@udmercy.edu)  
Phone: 313-993-1158

It is very important for students to be proactive with regard to requesting their disability accommodations every semester. Students are encouraged to have open communication with their professors. However, it is a personal choice and never a requirement for students to disclose their disabilities to anyone except the Director of Disability Support Services, and only if they wish to request accommodations. You must be registered with Disability Support Services and your faculty must receive official notification from the DSS office before they can make arrangements for your accommodations.

## **IMPORTANT LINKS**

UDM Mission:

<http://www.udmercy.edu/mission/mission-vision/index.htm>

Engineering and Science College Mission:

<http://www.udmercy.edu/catalog/undergraduate2015-2016/colleges/eng-sci/>

Student Handbook:

<http://www.udmercy.edu/slo/office/handbook/index.htm>

Academic Integrity:

<http://www.udmercy.edu/catalog/graduate2016-2017/colleges/eng-sci/index.htm>

## **TITLE IX PROTECTIONS**

The University of Detroit Mercy is committed to promoting an environment which supports its educational mission and Jesuit and Mercy traditions. In addition, the University seeks to create a climate which preserves the safety and dignity of its members. In particular, the University views, with the utmost seriousness, offenses against an individual such as stalking, sexual harassment, inappropriate sexual touching, sexual assault and any other form of non-consensual sexual activity. The University experience includes learning to make wise choices. The decision-making process can be a challenge and an opportunity for students, faculty and staff. At the University of Detroit Mercy, choices are framed by an ethical and moral commitment to honesty, to the dignity of the individual and to responsibility to others.

**STATEMENT:** This is a tentative syllabus. Syllabus is subject to change.