Course Syllabus
MIS-7681-001 – Management of Software Testing
Fall, 2015
3 Credit Hours

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Office Hours: By appointment only

Course Overview

Topics will include software testing goals, objectives, planning techniques, and managerial structures. It will also cover manual and automated software testing techniques and test case generation.

Pre-Requisites/Co-Requisites:
MIS 7610 (pre- or co-requisite)

Required Texts (and Related Materials):
Systematic Software Testing by Rick D. Craig and Stefan P. Jaskiel, Artech House, 2002

Course Objectives:
To introduce concepts of contemporary software testing, with an emphasis on its role in the software development life cycle.
To discuss the management of software testers, test planning, and test execution.
To examine practices used in software testing at the detail level and within the enterprise IT function.
Fogelman College: Learning Outcomes for Your Degree

Contact the instructor if your degree program is not listed below.

If you are seeking to obtain the Graduate Certificate in Software Testing, you MUST submit a separate application (in addition to the application to the Graduate School for the MSBA degree) in order to be admitted to the Graduate Certificate program. Prior to graduation, you will also have to submit a separate Graduate Certificate Program Candidacy Form and a separate Intent to Graduate card for the Graduate Certification program, in addition to the form and card for the MSBA degree.

| MSBA       | http://www.fcbeassessment.net/LearningOutcomes/MSBADegreeLearningOutcomes.pdf |

Course Methodology

Lectures, homework, projects, in-class exercises, class member presentations, and written examinations.

Professor's Expectations:

Class attendance is expected. Students are responsible for all assigned reading, in-class and out-of-class assignments, and all material presented in class by instructor and students. Students are responsible for obtaining in-classroom content and announcements in the event of absence or tardiness.

Given the importance of collaboration, students are expected to be able to function in teams as well as individually.

Given the importance of reference and research information, students are expected to be able to use tools such as smart phones, tablets, and laptop computers AS ASSIGNED BY THE INSTRUCTOR. Students are expected to show courtesy and judgment in using those tools appropriately in a classroom setting, and to avoid distracting themselves or their classmates.

Student's Expectations:

Students should normally expect email responses within two (2) business days, and feedback on work submitted within 7-10 business days. Students should expect in-class review of quizzes and assigned reading.

Grading and Evaluation Criteria

Student grading will be based on a weighted average over the following components:

- 20% Mid-term exam
- 30% Final exam
- 35% Projects and presentations
- 15% Homework and class participation
Final Course Grades

Performance on quizzes and exams will be assessed according to the following scale.

<table>
<thead>
<tr>
<th>Point Range</th>
<th>Assigned Grade</th>
</tr>
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<tbody>
<tr>
<td>91-100 Points</td>
<td>A</td>
</tr>
<tr>
<td>81-90 Points</td>
<td>B</td>
</tr>
<tr>
<td>71-80 Points</td>
<td>C</td>
</tr>
<tr>
<td>61-70 Points</td>
<td>D</td>
</tr>
<tr>
<td>0-61 Points</td>
<td>F</td>
</tr>
</tbody>
</table>

Course Topics

The course will include the following topics, and others as time permits. The order of topics is subject to change. Additional resources and recommended readings will be communicated as topics are addressed.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Copeland chapters</th>
<th>Craig and Jaskiel chapters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to software testing</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Black box testing</td>
<td>3-8</td>
<td>5</td>
</tr>
<tr>
<td>White box testing</td>
<td>10-11</td>
<td>5</td>
</tr>
<tr>
<td>Use cases to test cases</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>Exploratory testing</td>
<td>13</td>
<td>5</td>
</tr>
<tr>
<td>Master test planning</td>
<td>3</td>
<td>12, 14</td>
</tr>
<tr>
<td>Detailed test planning</td>
<td>4</td>
<td>12, 14</td>
</tr>
<tr>
<td>Risk analysis</td>
<td>2</td>
<td>16</td>
</tr>
<tr>
<td>Defect management</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>Test implementation</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>Test organizations and personnel</td>
<td>-</td>
<td>8-10</td>
</tr>
</tbody>
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Final Exam Schedule

The final exam for this class will be scheduled according to the Registrar’s academic calendar website.
Course Policies

E-MAIL:
All students are required to maintain and access their University of Memphis (@memphis.edu) email account. You will receive all official course correspondence at this email account. Any inability to receive incoming mail in a timely fashion (e.g., not regularly checking your email, having a “full mailbox” condition, etc.) is the student’s responsibility.

Attendance:
In-class activities, presentations, and feedback are an important aspect of this course. As noted above, in-class participation is a component of grading. Therefore, students are expected to attend all regular class meetings and be fully engaged when in class. In the event of an unavoidable absence, students remain responsible for the material covered in class.

Adding/Dropping:
If you have questions about adding or dropping classes, please refer to this page on the Registrar’s website.

Academic Integrity:
The University of Memphis has clear codes regarding cheating and classroom misconduct. If interested, you may refer to the Student Handbook section on academic misconduct for a discussion of these codes.

If you have any questions about academic integrity or plagiarism, you are strongly encouraged to review the Fogelman College’s Website on Academic Integrity. Reference the FCBE page on academic integrity: http://www.memphis.edu/fcbe/integrity/.

Note that using a “Solutions Manual” is considered cheating. Should your professor have evidence that using a “Solutions Manual” has occurred, he/she may take steps as described on the campus’ Office of Student Conduct website.

Participation:
To be successful in this course as a student, you must stay active and involved throughout the entire semester.

Classroom or Online Behavior:
All participants in the course should be considerate of the other course participants and treat them (as well as their opinions) with respect. The class will operate under the assumption that any and all feedback offered is positive in nature and that the intentions of the person(s) providing feedback are strictly honorable. Insensitivity in this area will not be tolerated. If you have any questions about online communication, you should review the Fogelman College’s Netiquette website.

Late Assignments:
Assignments and projects may be submitted anytime up to and including the date due. If your work is not submitted on time, the instructor reserves the option to deduct up to 20%
of the grade value for tardiness depending upon the circumstances and appropriate communication between the student and the instructor.

**Extra Credit:**

There is no extra credit offered in this course. Your final grade will be computed based on your work on the formal/assessed activities previously described in this syllabus.

**Reporting Illness or Absence:**

University policy requires faculty reporting of students who do not attend classes. Therefore, students should communicate at the earliest opportunity (ahead of class time, if at all possible) if illness or other unavoidable circumstances result in missing a regular class meeting.

Please do not wait until the last day to submit assignments or to take quizzes and exams. If an emergency should arise, it is the student’s responsibility to contact the instructor prior to the deadline to discuss the matter. A deadline extension will be considered only if all of the following conditions are met:

(1) Extreme emergency and (2) Instructor contacted prior to the due date.

**Inclement Weather:**

In the event that inclement weather requires the cancellation of classes at The University of Memphis, local radio and television media will be immediately notified. Additionally, The University of Memphis has established an Inclement Weather Hotline at 678-0888 as well as TigerText, an emergency alert text messaging service to students, faculty and staff. This optional service is used in the event of an on-campus emergency, an unscheduled university closing, or a delay or cancellation of classes due to, for instance, inclement weather. Click [Here](#) for information on TigerText.

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**Student Services**

Please access the [FCBE Student Services](#) page for information about:

- Students with Disabilities
- Tutoring and other Academic Assistance
- Advising Services for Fogelman Students
- Technical Assistance