FALL Semester 2016
CS5405
Java, GUI and Visualization

Prerequisites: Data structures II – CS2500 or equivalent

This course emphasis on fundamentals for:
  
JavaFx
Control Structures
Layout Managers
Multimedia
Dialog boxes
NetWorking
Concurrency
GUI I/O

TextBook (for assignments & reference)
Y. Daniel Liang
Java Programming Comprehensive edition 10th Edition

Course Outlines
Basics: 1-13
Course Topics: 14,15,16, 30,31
JavaFX, Java Libraries,
Controls, LayoutPanes, Shapes,
Graphical User Interfaces, Multimedia: Images, Audio, Animation,
Networking, and Concurrency using Threading.
Graphical User Interface Components:
button, checkbox, textField, list, slider, Menu, Panel,
InternalFrame, Frame, Dialog Box, Border etc.
Event Driven Programming with Mouse.
JFileChooser

Handouts, Assignments, Demos are on Blackboard
http://blackboard.mst.edu/
cheating total score negated
late work 20% off per day
absences 1% off per day, Missing more than 3 classes drop
Dr. Chaman Sabharwal
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Fax: (573) 341-4501
Email: chaman@mst.edu
URL: http://www.mst.edu/~chaman
Lectures: TU-TH 11:00AM – 12:15PM CDT
Office Hours: Any time I am in the office (Open Door Policy). Also by appointment. 9:30-11:00am
TA: ???

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<thead>
<tr>
<th>Exams</th>
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<tbody>
<tr>
<td>Exam1:</td>
<td>15%</td>
<td>September 25, 2016</td>
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<tr>
<td>Exam2:</td>
<td>15%</td>
<td>October 13, 2016</td>
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<tr>
<td>Exam3:</td>
<td>15%</td>
<td>November 10, 201</td>
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<tr>
<td>Homework/Quizzes</td>
<td>40%</td>
<td>As assigned</td>
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<tr>
<td>Final Exam</td>
<td>15%</td>
<td>Week of December 12, 2016</td>
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Grading Curve
A: 88-100%  B: 75-87%  C: 62-74%  D: 50-61%  F: 0-49%

Attendance Required – required for class participation. Roll call will be taken before the class begins. If a student is absent for more than three classes without permission, it will be difficult to catch up with the missed class work. In such cases, the student may be subject to withdrawal from the course. For absences without prior permission for a valid reason, the overall score is reduced score by 1% per absence.

In order to grade homework uniformly and consistently for all students, late work will not accepted.

No Makeup exams will be given unless the student contacts the instructor before the exam, and has MS&T-acceptable documented reason (i.e. illness, death in the family, etc)

Homework assignment regularly. Grades will be posted as soon as homework is graded. Any discrepancies must be reported and resolved within one week of assignment grade posting.

Programs will be written in JavaFX8, graded for Accuracy, Efficiency, Originality, Graphical User Interface, Object Oriented Program Design.

Student Honor Code and Academic Integrity:
Please take a few minutes to stress the importance of academic integrity in class. Discuss why it should matter to the student, why it matters to you and your discipline, why it matters to Missouri S&T, and why it matters to future employers. Include a statement on your syllabus about the Honor Code developed and endorsed by the Missouri S&T Student Council: the Honor Code can be found at this link: http://stuco.mst.edu/about/honor.shtml. Encourage students to read and reflect upon the Honor code and its emphasis on HONESTY and RESPECT. Page 30 of the Student Academic Regulations handbook describes the student standard of conduct relative to the University of Missouri System's Collected Rules and Regulations section 200.010, and offers descriptions of academic dishonesty including cheating, plagiarism or sabotage (http://registrar.mst.edu/academicregs/index.html). Additional guidance for faculty, including the University’s Academic Dishonesty Procedures, is available on-line at http://ugs.mst.edu. Other informational resources for students regarding ethics and integrity can be found online at http://ugs.mst.edu/academicintegrity/studentresources-ai.

S&Tconnect: https://blackboard.mst.edu/ (S&Tconnect tab)
S&Tconnect provides an enhanced system that allows students to request appointments with their instructors and advisors via the S&Tconnect calendar, which syncs with the faculty or staff member’s Outlook Exchange calendar. S&Tconnect will also facilitate better communication overall to help build student academic success and increase student retention. S&Tconnect Early Alert has replaced the Academic Alert system used by Missouri S&T. If training is needed, please contact Rachel Morris at rachelm@mst.edu or 341-7600.

Classroom Egress Maps:
Faculty should explain where the classroom emergency exits are located. Please include a statement in your course syllabus asking the students to familiarize themselves with the classroom egress maps posted on-line at: http://designconstruction.mst.edu/floorplan/.

Disability Support Services: http://dss.mst.edu
Any student inquiring about academic accommodations because of a disability should be referred to Disability Support Services so that appropriate and reasonable accommodative services can be determined and recommended. Disability Support Services is located in 204 Norwood Hall. Their phone number is 341-4211 and their email is dss@mst.edu. Instructors may consider including the following statement on their course syllabus as a means of informing students about the services offered:
"If you have a documented disability and anticipate needing accommodations in this course, you are strongly encouraged to meet with me early in the semester. You will need to request that the Disability Services staff send a letter to me verifying your disability and specifying the accommodation you will need before I can arrange your accommodation."

LEAD Learning Assistance http://lead.mst.edu
The Learning Enhancement Across Disciplines Program (LEAD) sponsors free learning assistance in a wide range of courses for students who wish to increase their understanding, improve their skills, and validate their mastery of concepts and content in order to achieve their full potential. LEAD assistance starts no later than the third week of classes. Check out the online schedule at http://lead.mst.edu/assist, using zoom buttons to enlarge the view. Look to see what courses you are taking have collaborative LEAD learning centers (bottom half of schedule) and/or Individualized LEAD tutoring (top half of the schedule). For more information, contact the LEAD office at 341-7276 or email lead@mst.edu.

The Burns & McDonnell Student Success Center
The Student Success Center is a centralized location designed for students to visit and feel comfortable about utilizing the campus resources available. The Student Success Center was developed as a campus wide initiative to foster a sense of responsibility and self-directedness to all S&T students by providing peer mentors, caring staff, and approachable faculty and administrators who are student centered and supportive of student success. Visit the B&MSSC at 198 Toomey Hall; 573-341-7596; success@mst.edu; facebook: www.facebook.com/SandTssc; web: http://studentsuccess.mst.edu/
If you have any questions about the information listed above, please contact the Office of Undergraduate Studies at 573-341-7276.