IS4010 – Advanced Application Development – Summer 2017
Monday, Wednesday & Friday – 3:30pm–5:30pm.

Professor Robert Rokey
Lindner College of Business
University of Cincinnati

Office : 523 Lindner Hall
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E-mail : Robert.Rokey@uc.edu
Office Hours : Monday, Wednesday and Friday 1:30pm to 3:30pm

PREREQUISITES:
IS 3050

TEXT:
Savitch, Walter Absolute Java 5th Ed., Pearson, 2010

COURSE DESCRIPTION:
This course will provide the student with exposure to application development, using Sun’s Java language and Java 2 Enterprise Edition development platform. It is the goal of this course to provide students with a firm foundation in applications development and the necessary skills to design and develop application systems.

PEDAGOGICAL APPROACH:
The class will be a combination of lectures and class discussions. Your participation is not only requested but is necessary to provide effective class sessions. Multimedia support of lectures will demonstrate the use of computers in presentations. There is no such thing as a silly question, I encourage all questions!
GRADING POLICY:

Students will be evaluated on the following basis:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation</td>
<td>10%</td>
</tr>
<tr>
<td>Homework</td>
<td>45%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
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</tbody>
</table>

The grading scale is as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade</th>
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<tbody>
<tr>
<td>A</td>
<td>Grade &gt;= 91</td>
</tr>
<tr>
<td>A-</td>
<td>90 &lt;= Grade &lt; 91</td>
</tr>
<tr>
<td>B+</td>
<td>89 &lt;= Grade &lt; 90</td>
</tr>
<tr>
<td>B</td>
<td>81 &lt;= Grade &lt; 89</td>
</tr>
<tr>
<td>B-</td>
<td>80 &lt;= Grade &lt; 81</td>
</tr>
<tr>
<td>C+</td>
<td>79 &lt;= Grade &lt; 80</td>
</tr>
<tr>
<td>C</td>
<td>71 &lt;= Grade &lt; 79</td>
</tr>
<tr>
<td>C-</td>
<td>70 &lt;= Grade &lt; 71</td>
</tr>
<tr>
<td>D+</td>
<td>69 &lt;= Grade &lt; 70</td>
</tr>
<tr>
<td>D</td>
<td>61 &lt;= Grade &lt; 69</td>
</tr>
<tr>
<td>D-</td>
<td>60 &lt;= Grade &lt; 61</td>
</tr>
<tr>
<td>F</td>
<td>Grade &lt; 60</td>
</tr>
</tbody>
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Grade Revisions:

If you think an error has been made in computing your homework or exam grade, you should appeal the grade within one week after the work has been returned to you. Each week you should check the grade sheets posted on the Web to see that your grades have been recorded correctly.

Missed Exam: Should you not take an exam, no makeup exam will be given; a grade of zero will be recorded unless there is an academically valid reason for missing the exam.

Incomplete Grade Policy: An "I" grade will be awarded only for truly exceptional circumstances which occur after the University deadline for dropping the course has passed.
ATTENDANCE POLICY:

You are expected to attend class. If you miss a class, you still will be responsible for all the announcements made and all the material covered in that class. Graded assignments will be returned in class; however, I will bring them to class just once. After that time, you may pick up graded assignments from 523 Lindner during office hours.

ASSIGNMENTS:

will be due at the beginning class on the day due. Assignments turned in up to 24 hours late lose 20% of the total points. Assignments turned in 24 to 48 hours late lose 40% of the total points. Assignments will not be accepted after they are 48 hours late. All days, Saturdays, Sundays, holidays count as part of late hours!

PLAGIARISM/CHEATING POLICY:

As with all Lindner College of Business efforts, this course will uphold the highest ethical standards, critical to building character (the C in PACE). Ensuring your integrity is vital and your responsibility. LCB instructors are required to report ANY incident of academic misconduct (e.g., cheating, plagiarism) to the college review process, which could result in severe consequences, including potential dismissal from the college. For further information on Academic Misconduct or related university policies and procedures, please see the UC Code of Conduct (http://www.uc.edu/conduct/Code_of_Conduct.html).

You must do your own work in this course. Plagiarism includes, but is not limited to, copying or using someone else's work or planning document. If you make use of another’s work, your instructor will assume that both parties have knowledge of the act.
Use of computer: You may use any computer facilities to which you have valid access. Microcomputer labs are located in 149 McMicken Hall, Anne Laws, in the library, and in 209 Lindner and 211 Lindner.

Abuse of Privileges: You and only you are authorized to use the SAN account assigned to you. You may not use, copy, or tamper with the programs or data files of others on the SAN or the microcomputer network. Unauthorized use or abuse of computer accounts, programs, or data files will be dealt with severely; both criminal and administrative penalties may be applied. Administrative penalties may include failing the course, expulsion from school, and/or losing the privilege of using the College or University computing facilities.
# Tentative Class Schedule

Topics and pace may vary depending on class needs

<table>
<thead>
<tr>
<th>WEEK</th>
<th>TOPIC</th>
<th>READING ASSIGNMENTS</th>
</tr>
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</table>
| 1.   | Intro to Eclipse  
Intro to Java  
Control Classes  
Arrays  
IO | Chapt. 1, 2  
Chapt. 3  
Chapt. 4, 5  
Chapt. 6  
Chapt. 10 |
| 2.   | Inheritance  
Polymorphism  
Exception Handling | Chapt. 7  
Chapt. 8  
Chapt. 9 |
| 3.   | Recursion/ **Review**  
Midterm  
UML and Patterns  
Interfaces and Inner classes | Chapt. 11  
Chapt. 12  
Chapt. 13 |
| 4.   | Generics  
Collections, maps and iterators | Chapt. 14  
Chapt. 16 |
| 5.   | Swing | Chapt. 17, 18 |
| 6.   | Applets  
Multithreading  
**Final** | Chapt. 20  
Chapt. 19 |