General Information:

Instructor: Jianjun Yang  
Office: Nesbitt Building, Room 5130
Office Phone: 678-717-3513  
E-Mail: jianjun.yang@ung.edu
Office Hours: Tuesday/Thursday 12:00 PM - 12:30 PM, 2:30 PM - 3:30 PM, 10:00 AM - 1:00 PM
and by appointment.
Website: http://faculty.ung.edu/jyang/teaching.html and eLearning(D2L)

Text(s): Required: *Java Foundations: Introduction to Program Design and Data Structures, 4th Edition*
Author(s): John Lewis, Peter DePasquale, Joe Chase; Press: 2017 Pearson

Course Description:
This course has a continuation of the topics introduced in CSCI 1301. It extends the discussion of object-oriented programming to include inheritance, polymorphism, recursion, searching and sorting. The course also has the understanding and application of data structures, and analysis and design of algorithms. The course will have a strong lab component.
Credit: 4 semester hours
Prerequisite(s): CSCI 1301 or CSCI 1371 with a grade of C or higher.

Course Content:
- Review of Java Programming, Classes and Arrays
- Inheritance
- Polymorphism, Interfaces
- Analysis of Algorithms
- Stack
- Queue
- List
• Sorting & Searching
• Tree and Binary Tree
• Graph

Course Objectives:

• Apply the Java programming language to solve small to mid-sized problems.
• Write programs using object-oriented concepts including inheritance and polymorphism.
• Design and implement algorithms to solve problems using recursion, searching and sorting, and abstract data types.
• Design objects to model a world.
• Familiarize basic data structures.
• Devise algorithms to accomplish tasks with Stack, Queue, List, Tree, Binary Tree and Graph.
• Use advanced programming techniques to develop programs.

Evaluation Methods:
The course is evaluated by the performance of students’ homework assignments, lab practices, attendance (quizzes), tests, and final examination.

Course Grading:

<table>
<thead>
<tr>
<th></th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Labs and Assignments</td>
<td>30%</td>
</tr>
<tr>
<td>Attendance and Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Test(2)</td>
<td>35%</td>
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<tr>
<td>Final Exam</td>
<td>25%</td>
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Letter Grade Distribution:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
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<tr>
<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>Below 60</td>
<td>F</td>
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Course calendar:

1. Class begin: January 08, 2018
2. Last day of classes: April 27, 2018
3. Withdrawal Deadline: March 05, 2018
4. Holidays:
   • January 15, 2018
   • March 12-16, 2018

Supplemental Syllabus:
• **Attendance Policy**
  Attendance is required. One point is taken off from final numerical grade of each absence (up to 10 points). Students are responsible for material covered in each class including in-class exercises, as well as for assignments made and schedule changes announced in class.

• **Make-Up Policy**
  If, for sufficient reason, a student must miss a scheduled test or exam, it is the student’s responsibility to contact the instructor at least 24 hours before the test or exam. The instructor may schedule a makeup test or exam.
  
  Quizzes and in-class exercises may not be made up. Each homework assignment has a due date, and points may be deducted for material turned in late. 30% credit will be taken off per day late. Homework assignments more than 4 calendar days late will not be graded. Quizzes may be given on any class day, and will cover reading assignments, lectures, programming assignments, and other materials.

• **Disruptive Behavior Statement**
  Students who exhibit behaviors which are considered to obstruct or disrupt a class or its learning activities will be considered under the Board of Regents Policy on Disruptive Behavior. It is the right of the individual instructor to clearly define their expectations for student behavior. Behaviors which may be considered by some instructors to be inappropriate in a classroom include sleeping, eating, coming in late, interrupting others, talking out of turn, chatting, playing games, inappropriate behavior during group work, verbal behavior that is disrespectful of other students or the instructor. Students who exhibit disruptive behavior will be given a verbal warning by the class teacher. If the behavior persists, the student will be given a written warning in a meeting with the chair of the department of Computer Science & Information Systems. Any further infractions would be referred to the Disciplinary Committee of the School.

• **Collaboration and Academic Integrity**
  For any course work, copying or sharing with others is not allowed. Any instance of violation or cheating will result in failure of the course, and/or referral to the Disciplinary Committee of the School under procedures specified in the Student Handbook.

• **Supplemental Information**
  Standard information for Academic Exchange, Inclement Weather, Students with Disabilities, Academic Dishonesty, Smoking Policy, Plagiarism, Copyright, Course Withdrawal Process, Administrative Office Hours, and Campus Telephone Numbers can be viewed at: http://ung.edu/academic-affairs/policies-and-guidelines/supplemental-syllabus.php

  **SPECIFIC DETAILS OF THIS SYLLABUS MAY BE SUBJECT TO CHANGE.**

  Tentative Exam Schedule CSCI 1302 TR
  Test 1 Tuesday, 02/20, 2018
  Test 2 Tuesday, 04/17, 2018
  Final Examination: 12:40 PM - 2:40 PM, Thursday, May 03, 2018.