

**Kennesaw State University**  
**Department of Computer Science**  
**CS5000 Foundations of Programming**  
**Summer 2018**

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |
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| <b>Credit Hours:</b>            | 3 Credit Hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                |
| <b>Pre-Requisites:</b>          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                |
| <b>Textbook (Not required):</b> | Introduction to Java Programming, Comprehensive Version, 10th Edition<br>By Y. Daniel Liang, Pearson Publishing, 2015, ISBN#: 978-0-13-376131-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |
| <b>Course Webpage:</b>          | <a href="http://ksuweb.kennesaw.edu/~mkang9/">http://ksuweb.kennesaw.edu/~mkang9/</a> and <a href="http://d2l.kennesaw.edu/">http://d2l.kennesaw.edu/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                |
| <b>Class Design:</b>            | <p>Lecturing Time: MW 2:00PM-4:45pm<br/> Lecturing Room: J-217<br/> Office: Atrium Building J-339, Marietta Campus<br/> Office Hours: 2-4pm on Tuesdays and 10am-noon on Wednesday, or by appointment<br/> Email: mkang9@kennesaw.edu, <b>please include 'CS5000' in the subject of your message when you email.</b></p> <p>Homework assignments, lecture slides, and other materials will be posted on the course webpage or D2L. Homework/project submissions have to be submitted in D2L.</p>                                                                                                                                                                                                                                                                                                       |                                                                |
| <b>Course Description:</b>      | An accelerated approach to programming is presented with an emphasis on program design and computer science concepts. A modern, Object-Oriented language is used. Topics include core programming concepts including common data structures, function and class definition, inheritance, polymorphism, file I/O and exceptions, and recursion. Programming projects are included.                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |
| <b>Learning Outcomes:</b>       | <ol style="list-style-type: none"> <li>1. Demonstrate skills in the use of core programming concepts such as data types, arithmetic expressions, control structures, logical expressions, selection, and repetition</li> <li>2. Design and implement object oriented concepts including class definition, inheritance, and polymorphism</li> <li>3. Solve programming problems using common data structures such as 1D and 2D arrays and dynamic collections such as the ArrayList</li> <li>4. Demonstrate an understanding of file I/O and exception handling techniques</li> <li>5. Trace recursive functions</li> <li>6. Conduct independent research and assimilation of an assigned learning module related to the foundation material for an instructional presentation to the class.</li> </ol> |                                                                |
| <b>Special Dates:</b>           | First Day of Classes<br>Last Day to Withdraw w/o Academic Penalty<br>Last Day of Class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Wednesday 05/30/2018<br>Friday 06/22/2018<br>Monday 07/18/2018 |

**Weekly Course Schedule: Subject to change**

| Week |                          | Topic                                                                                                                                |
|------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 05/30/2018               | - Discussion of course syllabus and policies, Course webpage<br>- Introduction to Java and Data Type<br>- Expressions and Statements |
| 2    | 06/04/2018<br>06/06/2018 | - Conditions and Controls<br>- Loops                                                                                                 |
| 3    | 06/11/2018<br>06/13/2018 | - Methods and Recursive<br>- Arrays                                                                                                  |
| 4    | 06/18/2018<br>06/20/2018 | - Exam 1<br>- Dynamic collection                                                                                                     |
| 5    | 06/25/2018<br>06/27/2018 | - Class and Inheritance                                                                                                              |
| 6    | 07/02/2018<br>07/04/2018 | - Polymorphism and Abstract Classes<br>- Holiday – No class                                                                          |

|   |                          |                                                 |
|---|--------------------------|-------------------------------------------------|
| 7 | 07/09/2018<br>07/11/2018 | - Exam 2<br>- Exceptional Handling and File I/O |
| 8 | 07/16/2018<br>07/18/2018 | - Interfaces and Nested Classes                 |
|   |                          | - Final                                         |

**Assessment Criteria:**

|             |     |
|-------------|-----|
| Assignments | 30% |
| Exam1       | 15% |
| Exam2       | 15% |
| Final       | 20% |
| Project     | 20% |

**Grade Evaluation**

|   |              |
|---|--------------|
| A | 85% - 100%   |
| B | 70% - 84%    |
| C | 55% - 69%    |
| D | 40% - 54%    |
| F | 39% or below |

**Course Policies and Other Information:**

**Assignment Grading Policy:** Successfully completed programs must satisfy their requirements outlined in the programming assignments. The assignment grade depends on the quality of the program. All assignments are individual work. You are encouraged to discuss assignments with other students and tutors as long as the following rules are followed:

1. You may provide assistance on how to use any of the software used by this course.
2. You view another student's code only for the purpose of offering debugging assistance. Students can only give advice on what to look for, but they cannot debug your code for you. All changes to your code must be made by you.
3. Your discussion is subject to the empty hands policy, which means that you leave the discussion without any record (electronic or physical) of the discussion.
4. Submissions that show identical code or slightly modified code will be considered plagiarism and are a violation of the Student Code of Conduct.

For all homework assignments, if a student consults any resource (other than the text and class notes) including another individual, this consultation must be documented on the submission. This documentation must include what (or who) was consulted and what information was obtained. Copying or paraphrasing code from another source or failure to provide this documentation will be considered a violation of the Student Code of Conduct.

Due dates for homework assignments will be specified on the assignments themselves. Late assignments will be accepted up to 24 hours after the due date for 50% credit. Assignments submitted more than 24 hours late will not be accepted for credit. Again, an assignment will not be graded if it is not completed.

**Class Format:** Lecture notes (PowerPoint Slides) and homework assignments for all sections. Slides will be posted on the course webpage.

**Tests:** An exam is planned for this course. The estimated dates are shown in the **Weekly Course Schedule** table above.

**Email Policy:** The instructor will ONLY reply to e-mails that are sent from KSU student email accounts and list the course number in the subject line of the e-mail (CS 5000). E-mails with other subject lines or from an account rather than KSU student account may not reach the instructor's mailbox. You are required to check your KSU email account on a daily basis. The instructor will reply email within 24 hours.

**Withdrawal Policy:** The last day to withdraw without academic penalty is **Friday 06/22/2018**. Ceasing to attend class or oral notice thereof DOES NOT constitute official withdrawal from the course. Students who simply stop

attending classes without officially withdrawing usually are assigned failing grades. Students wishing to withdraw after the scheduled change period (add/drop) must obtain and complete a withdrawal form from the Academic Services Department in the Registrar's Office.

**Classroom Behavior:** Students are reminded to conduct themselves in accordance with the Student Code of Conduct, as published in the Undergraduate and Graduate Catalogs. Every KSU student is responsible for upholding the provision. Students who are in violation of KSU policy will be asked to leave the classroom and may be subject to disciplinary action by the University.

**Academic Integrity Statement:** Every KSU student is responsible for upholding the provisions of the Student Code of Conduct, as published in the Undergraduate and Graduate Catalogs. Section II of the Student Code of Conduct addresses the University's policy on academic honesty, including provisions regarding plagiarism and cheating, unauthorized access to University materials, misrepresentation/falsification of University records or academic work, malicious removal, retention, or destruction of library materials, malicious/intentional misuse of computer facilities and/or services, and misuse of student identification cards. Incidents of alleged academic misconduct will be handled through the established procedures of the University Judiciary Program, which includes either an "informal" resolution by a faculty member, resulting in a grade adjustment, or a formal hearing procedure, which may subject a student to the Code of Conduct's minimum one semester suspension requirement.

Frequently students will be provided with "take-home" exams or exercises. It is the student's responsibility to ensure they fully understand to what extent they may collaborate or discuss content with other students. No exam work may be performed with the assistance of others or outside material unless specifically instructed as permissible. If an exam or assignment is designated "no outside assistance" this includes, but is not limited to, peers, books, publications, the Internet and the WWW. If a student is instructed to provide citations for sources, proper use of citation support is expected. Additional information can be found at the following locations.

<http://www.apa.org/journals/webref.html>

<http://bailiwick.lib.uiowa.edu/journalism/cite.html>

<http://www.indiana.edu/~wts/wts/plagiarism.html>

<http://www.virtualsalt.com/antiplag.htm>

**Electronic Devices:** In order to minimize the level of distraction, all beepers and cellular phones must be on quiet mode during class meeting times. Students who wish to use a computer/PDA for note taking need prior approval of the instructor since key clicks and other noises can distract other students. Recording of lectures by any method requires prior approval of the instructor. Students using a laptop in class should not check their email, browse the web, or in other way detract from the focus of the class.

**Disruption of Campus Life Statement:** It is the purpose of the institution to provide a campus environment, which encourages academic accomplishment, personal growth, and a spirit of understanding and cooperation. An important part of maintaining such an environment is the commitment to protect the health and safety of every member of the campus community. Belligerent, abusive, profane, threatening and/or inappropriate behavior on the part of students is a violation of the Kennesaw State University Student Conduct Regulations. Students who are found guilty of such misconduct may be subject to immediate dismissal from the institution. In addition, these violations of state law may also be subject to criminal action beyond the University disciplinary process.

**Computer Usage Policy:** The Kennesaw State University computer usage policy is posted at [https://policy.kennesaw.edu/sites/web.kennesaw.edu/policy/files/computerusagepolicy\\_11212014\\_0.pdf](https://policy.kennesaw.edu/sites/web.kennesaw.edu/policy/files/computerusagepolicy_11212014_0.pdf). Students are responsible for being familiar with the policy and the penalties authorized in the policy.

**The KSU Library System:** The KSU library system assists all students, faculty and staff with their research, including using library databases to find articles, accessing books and other materials in our catalog, and for specialized research needs. Librarians are available for in-person walk-up assistance at library help desks, one-on-one research appointments, and 24x7 via library chat. For more information on library locations, hours, and how to access our services please visit <http://library.kennesaw.edu/>.

**The KSU Writing Center:** The center helps students in all majors improve their writing. Experienced, friendly writing assistants help with topic development, revision, research, documentation, grammar, and more. For more information or to make an appointment, visit <http://writingcenter.kennesaw.edu> or stop by English Building, Room 242 (Kennesaw campus)

or Building A, Room 184 (Marietta campus).

## Acknowledgment and Acceptance of Academic Integrity Statement

In any academic community, certain standards and ethical behavior are required to ensure the unhindered pursuit of knowledge and the free exchange of ideas. Academic honesty means that you respect the right of other individuals to express their views and opinions, and that you, as a student, not engage in plagiarism, cheating, illegal access, misuse or destruction of college property, or falsification of college records or academic work.

As a member of the Kennesaw State University academic community you are expected to adhere to these ethical standards. You are expected to read, understand and follow the code of conduct as outlined in the KSU graduate and undergraduate catalogs. You need to be aware that if you are found guilty of violating these standards you will be subject to certain penalties as outlined in the college judiciary procedures. These penalties include permanent expulsion from KSU.

Read the Academic Integrity Statement and then sign and date in the space below. You are required to abide by these ethical standards while you are a student at KSU. Your signature indicates that you understand the ethical standards expected of you in this academic community, and that you understand the consequences of violating these standards.

CS 5000 (Summer 2018)  
Course Name

Mingon Kang  
Instructor Name

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Student ID Number

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date