Prerequisite: MATH 1513 or equivalent

Course Catalog Description: Introduction to computer science using a block-structured high-level computer language, including subprograms, arrays, recursion, records, and abstract data types. Principles of problem solving, debugging, documentation, and good programming practice. Elementary methods of sorting and searching. Use of operating system commands and utilities.

Primary Texts (require): online textbook: CS 1113: Computer Science I, zyBook, 2021. Subscription is $77. Subscriptions will last until Dec 30, 2021. Instructions:

1. Sign in or create an account at https://learn.zybooks.com
2. Enter zyBook code: OKSTATECS1113HeisterkampFall2021
3. Subscribe. Be sure to select your lab section number when subscribing (it can be changed later, if you select the wrong one).


Office Hours:
Tuesday, 1:30-3:00 p.m. in Stillwater, MSCS 508
Wednesday, 2:00-3:30, zoom meeting; invite on canvas
Other times available by appointment.

Grading:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>Exam 1</td>
<td>15%</td>
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<tr>
<td>Exam 2</td>
<td>15%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td>In class participation</td>
<td>5%</td>
</tr>
<tr>
<td>zyBook Participation Activities</td>
<td>10%</td>
</tr>
<tr>
<td>zyBook Challenge Activities</td>
<td>10%</td>
</tr>
<tr>
<td>Labs</td>
<td>25%</td>
</tr>
</tbody>
</table>

Grading Scale: for score $x$ in

- $90\% \leq x$ A
- $80\% \leq x < 90\%$ B
- $70\% \leq x < 80\%$ C
- $60\% \leq x < 70\%$ D
- $x < 60\%$ F
Dates:
- **Exam 1**: September 30, 12:00-1:15 p.m.
- **Exam 2**: November 4, 12:00-1:15 p.m.
- **Thanksgiving**: class and labs do not meet week of November 22-26
- **Final Exam**: December 9, 10:00-11:50 a.m.

**Labs in 108 MSCS:**

<table>
<thead>
<tr>
<th>Section</th>
<th>Day</th>
<th>Time</th>
<th>TA email</th>
</tr>
</thead>
<tbody>
<tr>
<td>69407</td>
<td>Mon.</td>
<td>8:30-10:20</td>
<td>Katragadda, Manish <a href="mailto:manish.katragadda@okstate.edu">manish.katragadda@okstate.edu</a></td>
</tr>
<tr>
<td>60669</td>
<td>Tue.</td>
<td>4:30-6:20</td>
<td>Nagaveti Bhavani Santhoshi, Achyutha &lt;<a href="mailto:anagave@okstate.edu">anagave@okstate.edu</a> &gt;</td>
</tr>
<tr>
<td>60676</td>
<td>Wed.</td>
<td>10:30-12:20</td>
<td>Hossain, Tanvir &lt;<a href="mailto:tanvir.hossain10@okstate.edu">tanvir.hossain10@okstate.edu</a> &gt;</td>
</tr>
</tbody>
</table>

In class exercises will be conducted in groups of up to three students and will be used for the “in class participation” score. Must be present in class to participate in the exercise. No late submission allowed. Conducting 80% of the in class participation exercises will provide the full 5% grade score. That is, you can miss up to 20% without a penalty.

**zyBook participation activities** for each week will be due at 11:00 a.m. before Tuesday’s lecture each week, except for the first week of classes. They are the interactive activities associated with the textbook’s reading sections for the week. The table of contents for the zybook will be organized into weekly chapters to make it easy for you to determine what you should be reading. Participation activities completed up to one week late with receive 50% credit.

**zyBook challenge activities** will be due at 11:59 p.m. on Sundays. They are the challenge activities associated with the previous week’s textbook’s reading sections. Completing 80% of the challenge activities will provide the full 10% grade score. That is, you can miss up or skip up to 20% without a penalty.

**Labs** will be typically due at 11:59 p.m. on Fridays. They are the programming activities associated with the previous week’s textbook’s reading sections. Most labs will be conducted on zyBook. The labs consist of five to eight small programming exercises each week. If any labs are due during the in person lab sections, they will be announced two weeks ahead of time. Correctly implementing 80% of the lab points will provide the full 25% grade score. That is, you can miss up or skip up to 20% without a penalty.

**Examinations**: During an examination period, no communication of any kind about the exam (except with the instructor or proctor) is allowed. Exams will be held in the lecture section.

**Collaboration**: Discussion of concepts, ideas, and techniques is allowed. After discussion, each student must write up his/her own solution. Copying another person’s work, in part or whole, is not allowed. Giving another student your work, in part or whole, is considered cheating as well. If you are unsure whether your collaboration is acceptable, speak with the instructor in advance. The internet is a great place to find out how to do things in Java, and we encourage you to use it for that purpose. However, copying a whole program or assignment, or a large chunk of one, and turning it in as your own
work is cheating. Think about the purpose of an assignment. If what you are doing bypasses the purpose of the assignment, then it is probably cheating. Any violation of academic integrity would result in a undroppable grade of zero for that assignment and an additional reduction of one letter grade in the course and a report to the university administration. Major violations will result in a grade of F!.

**Disabilities act:** If any student feels that he/she has a disability and needs special accommodations of any nature whatsoever, the instructor will work with you and Student Disability Services, 315 Student Union, to provide reasonable accommodations to ensure that you have a fair opportunity to perform in this class. Please advise the instructor of such disability and the desired accommodations at some point before, during, or immediately after the first scheduled class period.

**Syllabus Attachment:** See [https://academicaffairs.okstate.edu/site-files/documents/2021-fall-syllabus-attachment-7-21-21.pdf](https://academicaffairs.okstate.edu/site-files/documents/2021-fall-syllabus-attachment-7-21-21.pdf) for Stillwater’s syllabus attachment. A copy of Stillwater’s syllabus attachment will be uploaded to canvas.

**Development Environment:** the course will use Java as the programming language. The zyBook textbook and labs allow editing and running Java code from within a browser. You are encouraged to setup a local development environment on your machine. Lectures will use version 16 of Java the JDK and VS Code for the IDE.

- **Java Development Kit (JDK), Version 16.0.2, at [https://jdk.java.net/16/](https://jdk.java.net/16/).** Download the zip or tar.gz file for you operating system (under Builds heading). See notes on canvas for installation instructions.
- **Microsoft VS Code [https://code.visualstudio.com/](https://code.visualstudio.com/) with the Java Extension Pack.** This is a lightweight version of MS Visual Studio and is available for Mac and Linux in addition MS Windows. See notes on canvas for configuring VS Code.

An alternative to installing the software on your personal computer is to use OSU’s virtual lab which provides remote access to the software install in MSCS 108. See [https://it.okstate.edu/services/computer-lab-services/virtual-labs.html](https://it.okstate.edu/services/computer-lab-services/virtual-labs.html) for additional information on setting up the client for virtual labs.

**Getting Help:** There are quite a few ways to get help in this class. Here are some of them:

- Go to the supplemental instruction sessions.
- Visit the office hours of the instructor or TAs.
- You may go to any of the lab sessions and ask the TA for help about anything CS1 related, not just the labs.
- If you feel you may want study support, form a study group.
- Free tutoring is available on campus through the Lasso center ([https://lasso.okstate.edu/tutoring](https://lasso.okstate.edu/tutoring)).