# CPS 210 Computer Science I: Foundations
# Sections 01, 02, 03
## Fall 2023 (4 Credits)

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## INSTRUCTOR & COURSE INFORMATION

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| **Instructor:** | Kaitlin Hoffmann |
| **Email:** | hoffmank4@newpaltz.edu |
| **Prerequisites:** | Math Placement Level 4 or MAT152 Minimum Grade of C- |
| **Lecture Location:** | HUM 310 |
| **Lecture Hours:** | Monday and Thursday 8 AM - 9:15 AM |
| **Lab Hours:** | Section 1: M 2:00 – 4:50 PM, SH259<br>Section 2: R 2:00 – 4:50 PM, SH259<br>Section 3: W 11:00 AM – 1:50 PM, SH259 |
| **Office Hours:** | MR 11:00 AM - 12:30 PM. T 2:00 PM - 3:00 PM. |
| **Office Location:** | SH 243 (If I'm not in there, check SH 260, the glass room) |

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## TA INFORMATION

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| **Instructor:** | Anjali Tangirala |
| **Section:** | 01, 02 |
| **Email:** | tangiraa1@newpaltz.edu |
| **Office Hours:** | TBA |
| **Office Location:** | TBA |

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|---|---|
| **Instructor:** | Lauren Szabo |
| **Section:** | 03 |
| **Email:** | szabol1@newpaltz.edu |
| **Office Hours:** | TBA |
| **Office Location:** | TBA |

## SI INFORMATION

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|---|---|
| **SI Leader:** | Shane Lapp |
| **Section:** | ALL |
| **Email:** | lapps1@newpaltz.edu |
| **Office Hours:** | TBA |
| **Office Location:** | OM B106 |

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## COURSE DESCRIPTION

Algorithms, computer organization, data representation, program structure, programming techniques, numerical and non-numerical problems with emphasis on the analysis of problems and the formulation of algorithms for their solution. Weekly programming labs.

## COURSE OBJECTIVES & STUDENT LEARNING OUTCOMES

Students should be able to:

- Edit, compile, and run a Java program
- Use an integrated development environment
- Develop algorithms and write pseudo code for simple computing tasks
- Understand various data types
- Understand classes and Objects, variables, methods and their implementation and uses
- Use control structures
- Understand concepts of encapsulation, information hiding, inheritance
- Use of File I/O and Error handling

## E-MAIL AND BRIGHTSPACE

E-mail and Brightspace are primary means of communication between the instructor and the students. Receiving and reading course email, as well as periodically checking Brightspace, is ***your responsibility***.

E-mails will be answered within 24 hours Monday thru Friday. Emails will not be answered Saturday and Sunday. **The best time to reach me is Monday thru Thursday**.

## TEXTBOOK (Optional)

The textbook below is not required, but it is what I will be referencing throughout the course. The lectures and labs should be enough to learn the material. There is also a plethora of free online resources to learn the same material which I will provide below. However, not everyone learns the same way, so you may want to buy/rent the book if you like to read a textbook with your courses:

***Introduction to JAVA Programming, Comprehensive Version***, 10th edition by Y. Daniel Liang
**ISBN-13:** 978-0-13-376131-3

Listed below are some free online resources that you may find helpful:

- **https://www.w3schools.com/java/** – W3Schools Online Java Tutorial
- **https://java-programming.mooc.fi/** – University of Helsinki's MOOC on Java
- **https://www.udemy.com/course/java-tutorial/** — Free Udemy Java Course

## EVALUATION PROCEDURES AND CRITERIA

Progress in the course will be reflected in lab, quiz and exam grades covering the subject areas of the course. Attendance in classes is expected. **All exams and quizzes will be taken via paper due to a plethora of cheating due to ChatGPT.**

- Lab Quizzes: 15% **Every lab except during exam weeks**
- Labs: 5%
- Test 1: 20% - **Thursday September 21st**
- Test 2: 20% - **Thursday October 19th**
- Test 3: 20% - **Thursday November 16**
- Final Exam: 20% - **Thursday December 21 8:00 AM - 10:00 AM**

There will be **no extra credit** work given for any reason.
There will be **no** raising of letter grades at the end of the semester for any reason

**Grade Scale (by percentage)**

| | | | |
|---|---|---|---|
| A | 100 – 93 | A- | 92.9 – 90 |
| B+ | 89.9 – 87.5 | B | 87.4 – 82.6 |
| B- | 82.5 – 80 | C+ | 79.9 – 77.5 |
| C | 77.4 – 72.6 | C- | 72.5 – 70 |
| D+ | 69.9 – 67.5 | D | 67.4 – 62.6 |
| D- | 62.5 – 60 | F | Below 60 |

**Last day to DROP a course without "W" grade or fee for Fall 2023 is 09/10. Last day of the semester to withdraw from a course without receiving a penalty grade is 11/03.**

## LABS

Attendance in lab is **mandatory**. A laptop should be brought every lab. There are a few computers in the back of the lab if you are unable to bring one. A set of problems will be given each lab via Brightspace for you to complete after the lab quiz. When you are done with your lab, you must show your TA your work. It will be graded out of **2 points** based on participation. Meaning, if it looks like you made an effort and tried to solve the problems, you will receive the full 2 points. However, if it's obvious you did not try, you will lose points. Solutions for the labs will be released on Fridays. **DO THE LABS COMPLETELY.** If you do well on them, you should do well on the exams. Ask for help from your TA when needed; they are there to help you!!

## LAB QUIZZES

Lab quizzes will be given at the beginning of each lab **except** weeks that there is an exam. Quizzes are **open notebook but closed computer**; You may use any **paper** notes that you have. You will have roughly 30 minutes to complete them (unless you have an accommodation). They will be based on the previous lab. The lowest lab quiz will be dropped.

## EXAMS

There will be 3 exams and a final. Exams are **open notebook but closed computer**; You may use any **paper** notes that you have. The final is scheduled for **12/21 (8:00 AM - 10:00 AM)**. Exam questions will be in similar structure to the lab problems.

## *NEW!* SUPPLEMENTAL INSTRUCTION

**Supplemental Instruction** is a peer-led study group facilitated by a student that has taken and done well in the class previously and received additional training in study skills and group facilitation. Your SI Leader, **Emily Herbert**, facilitates two sessions per week based off of the material presented in class. Students that attend can ask questions, work through problems, review class material and work with other students in the class. Sessions are open to all students. Session times and locations can be found by going to my.newpaltz.edu and then to the **Center for Student Success** tab. Signing up early is encouraged but walk-ins are also welcome.

## CAMPUS-WIDE POLICY STATEMENTS

**Academic integrity policy statement:** Students are expected to maintain the highest standards of honesty in their college work. Cheating, forgery, and plagiarism are serious offenses, and students found guilty of any form of academic dishonesty are subject to disciplinary action. New Paltz's policy on academic integrity is found at **www.newpaltz.edu/ugc/policies/policies_integrity.html**, and several excellent resources to help with avoiding plagiarism are available on the Sojourner Truth Library's website: **lib.newpaltz.edu/assistance/plag.html**.

**Reasonable accommodation of individuals with disabilities statement:** Students needing classroom and/or testing accommodations related to a disability should contact the Disability Resource Center (Student Union, Room 210, 845-257-3020) as close as possible to the beginning of the semester. The DRC will then provide students' instructors with an Accommodation Memo verifying the need for accommodations. Specific questions about services and accommodations may be directed to Deanna

Knapp, Assistant Director (knappd@newpaltz.edu) or Jean Vizvary, Director (vizvaryj@newpaltz.edu).

**Veteran & Military Services statement:** New Paltz's Office of Veteran & Military Services (OVMS) is committed to serving the needs of veterans, service members and their dependents during their transition from military life to student life. Student veterans, service members or their dependents who need assistance while attending SUNY New Paltz may refer to www.newpaltz.edu/veterans; call 845- 257-3120, -3124 or -3074; e-mail np-vms@newpaltz.edu; or stop by the Student Union, Room 100 South.

**Computer and network policies statement:** Users of New Paltz's computer resources and network facilities are required to comply with the institutional policies outlined in the Acceptable Uses and Privacy Policy, available at www.newpaltz.edu/itpolicy/.

**Identity verification policy statement for online courses:** New Paltz's Online Identity Verification Policy is designed to verify that students enrolled in our online courses and/or programs are the ones who take the courses, complete the programs, and receive the academic credit.
See www.newpaltz.edu/ugc/policies/policies_onlineverification.html for the complete policy.

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## STUDENT EVALUATION OF INSTRUCTION

You are responsible for completing the Student Evaluation of Instruction (SEI) for this course and for all your courses with an enrollment of five (5) or more students. I value your feedback and use it to improve my teaching and planning.

# Computer Science I: Foundations
## Fall 2023 Outline

| Date | Topics |
|---|---|
| Week 1<br>08/28 | • Introduction to Java<br>• Syllabus<br>• Commenting<br>• Printing<br>• Arithmetic in Java<br>• Variables |
| Week 2<br>09/04 - **No Class Monday 09/04** | • Variables and Java Primitive Types<br>• Arithmetic in Java: Division and Modulus<br>• More Variables |
| Week 3<br>09/11 | • Casting<br>• Conditional Statements |
| Week 4<br>09/18 - **Test 1 Thursday 09/21** | • Scanner |
| Week 5<br>09/25 | • for Loops<br>• while Loops |
| Week 6<br>10/02 | Methods |
| Week 7<br>10/9 - **No Class Monday** | • Methods continued<br>• Scanner Class<br>• Math Class |
| Week 8<br>10/16 - **Test 2 Thursday 10/19** | Arrays |
| Week 9<br>10/23 | • Nested Loops<br>• Sorting |
| Week 10<br>10/30 | • Math.random()<br>• Wrapper Classes |

| Date | Topics |
| --- | --- |
| Week 11<br>11/06 | ArrayList |
| Week 12<br>11/13 - **Test 3 Thursday 11/16** | Strings |
| Week 13<br>11/20 - **No Class or Lab Wednesday and Thursday** | File Reading |
| Week 14<br>11/27 | Recursion |
| Week 15<br>12/04 | Creating Classes |
| Week 16<br>12/11 - **Last Day on Monday** | **FINAL EXAM: Thursday, December 21st 8:00 - 10:00 AM** |

******Syllabus and Course Outline subject to change at instructor's discretion. You will be notified and held accountable for any changes to the syllabus.***