Class name  Software Design II
Sections  CS220-01/02 — 4 credit units
Regular meeting times  M., Tu., W., Th.: Sec. 1, 8:50-9:45am; Sec. 2, 9:55-10:50am
Lecture room  Centennial 2205
Lab days and room  Some Mondays and some Wednesdays will be lab sessions, held in 16 Wing.
  • See the course website for each week’s plan.
Course website  https://cs.uwlax.edu/~jmaraist/220-fall-19
  Contains the up-to-date calendar for the next few weeks of deadlines and the lecture/lab schedule, plus other essential references
Other pages to bookmark for this class:
Autolab — for Java assignment submission  https://euryale.cs.uwlax.edu/fa19-jmaraist
  • You must be on campus, or using the UWL VPN, to access this site, https://www.uwlax.edu/its/network-telecom/vpn-virtual-private-network . For assistance with the VPN, contact the Eagle Help Desk, https://www.uwlax.edu/its/client-services-and-support/eagle-help-desk .
Links to course documents (on Canvas)
https://uwlac.instructure.com/courses/217854/pages/cs220-class-resources
  • Includes links to the full syllabus and course pack of lecture slides, exercises, etc.
Available online quizzes (on Canvas)
https://uwlac.instructure.com/courses/217854/quizzes
Prerequisites  CS120
Corequisites  CS225 recommended
Catalog description  This is a second course in the design of programs. Emphasis is placed on data abstraction and its application in design. Definitions of abstract data types are examined. The following structures are examined as methods for implementing data abstractions: recursion, sets, stacks, queues, strings, and various linked lists. Students will be expected to write several programs using these techniques in a modern programming language.
Instructor’s name  Dr. John Maraist
  • Vocative "Dr. Maraist" or "Prof. Maraist", pronouns he/him/his
Office location  209 Wing Technology Center
Email  jmaraist@uwlax.edu
About  http://cs.uwlax.edu/~jmaraist
Office hours and appointments  My office hours and appointment availability are listed on the course website. To make an appointment, ask by email at least one school day ahead of time.
References  ZyBook Java text; Java: A Beginner’s Guide, Herbert Schildt, Oracle Press; see the course website for other resources
Key dates

Tuesday, September 3  First class
Thursday, September 5  Midterm 0
Tuesday, September 24  Tentative date of Midterm 1
Monday, October 14  Tentative date of Midterm 2
Tuesday, October 29  Tentative date of Midterm 3
Tuesday, November 19  Tentative date of Midterm 4

I will confirm the actual midterm test dates at least two weeks beforehand.

November 21-22  Thanksgiving break

Saturday, December 14, 12:15-2:15pm  Final exam, Section 220-01

Tuesday, December 17, 2:30-4:30pm  Final exam, Section 220-02

- The final exam dates and times are set by the university; the schedule is available at www.uwlax.edu/records/faculty-staff-resources/final-exam-schedule . Per Note 1 on that page, our class is considered a MWF class for purposes of final exam scheduling. Do not plan to leave for holiday travel until after the exam date for your section of this class.
The objectives and outlook of this class

This class offers the opportunity to master the fundamentals of software development. We will use the Java programming language, but the skills we will convey are applicable to most programming and scripting languages in use today. Over the course of the semester, we will deepen your understanding of topics related to software development, including problem solving techniques, fundamental programming constructs, and their application to algorithm design and to the Java programming language.

In CS120 we learned about the design of simple algorithms and their implementation as Java programs executed as a single, sequential thread. We began with core elements of imperative programming: variable assignment, use and update; expressions, boolean logic, selection and iteration, subroutine use, arrays; and the language issues of syntax, declarations, scope, and subroutine creation and invocation. We introduced notions of object-oriented programming: classes and objects, constructors and methods, and inheritance. In CS220 we will build further on these foundations, including:

• Designing, implementing and understanding programs using object-orientation (including inheritance, overloading, overriding, and method polymorphism); recursion; generics; single- and multi-dimensional arrays; the separation of abstraction and implementation; exceptions; the local file system; and elementary data structures.

• Demonstrating understanding of Java’s use of your computer’s memory for method calls, variable and parameter storage, references, objects and arrays.

• Analyzing the asymptotic complexity of simple algorithms and presenting the result in big-O notation. We will focus in particular on a number of searching and sorting algorithms for arrays, and on operations on linked lists.

• Through the semester we will learn to debug programs, that is, to fix a range of problems, including infinite loops and various exceptions.

• Modern programming system make heavy use of standard pre-programmed libraries, so our work will use a number of external libraries, including for data structures and file I/O.

• Communication is as essential in computer science as in any other field. Although we will not have larger-scale writing exercises, I do require and will assess program comments, and examinations will include short-answer questions.

• Any local culture of programmers (such as a workplace or a community project) will adopt or be assigned stylistic conventions for programs and for comments. We will point out and follow a number of these guidelines, as well as general professional habits.

This class is focused tightly on mastering a specific set of skills, and on
the knowledge associated with those skills. Mastering any new mental or physical skill requires practice and discipline. You should plan to spend an average of about ten to twelve hours a week (not counting our class meetings) preparing for class, working assignments, and otherwise studying or practicing class material. As with a sport or musical instrument, you will not develop programming skills without committing serious and regular effort to actually programming.

The focus on skills, and the elementary nature of the material we cover, means that this class is highly cumulative. Topics from later in the class rely very heavily on earlier topics. Everything in this class replies very heavily on the material of CS120. Even where assignments and exams focus on particular later topics, it is unavoidable that earlier topics will be essential components of later work.

The skills you will gain in this class will generally fall into one of these four categories:

1. Designing an algorithm
2. Writing programs or parts of programs
3. Constructing and debugging correct executable programs
4. Analyzing programs and code to accurately predict how it will behave

It is important to master all of these skills over the course of the semester, but we recognize that some people take longer to master some aspects of algorithmic thinking and programming. So when computing final grades, I will replace earlier grades from a particular skill category with the weighted average of later grades from the same category. The Assessment section of the syllabus details exactly how this calculation will work. (Miscellaneous and administrative assignments will have separate categories for grading purposes.)

**Assessment**

For assessment, we divide the assignments and examinations into the following phases: preparatory homework (which will include the quizzes), supplementary homework, labs, projects, mid-term exams and the final exam (in that order). Each marked item will be attributed to one category including: programming (which includes book work, labs, projects and most other independent work), algorithm design, describing how code will execute, conveying understanding of concepts. The latter three categories are for exams; the first category is for out-of-class homework and projects. The points of items for a particular category in each phase of the class will be adjusted to be no less than the weighted average of items of the same category in the next later phase of the class. So for example, your percentage score on a midterm exam asking you to predict the effect of some piece of code will not be less than the weighted average of your scores on the final exam questions asking you to predict the effect of code. This adjustment will be transitive from the final exam backwards.
Forms of assessment and their weight

Your grade for each class assignment and phase will be calculated as a weighted average. In turn your final grade will be the weighted average of the assessment of your work, adjusted as described above, and weighted as follows:

- **Preparatory homework and quizzes**: 5%
- **Supplementary homework**: 10%
  Preparatory homework is designed to let you come to class ready to engage with the day’s material. Sometimes it will review earlier concepts (from CS120, or from previous topics in this class); sometimes it will ask you to experiment with aspects of Java which we will consider in more detail that day. Supplementary homework follows up on class topics to reinforce what we discuss. The supplementary problems help you identify aspects of the new material which you may not yet understand, and prepare you for labs and projects.
- **Labs**: 7%
- **Projects**: 25%
  Labs and projects ask you to apply the material you learn in class and practice in homework. Lab assignments tend to be shorter, and in some labs I will guide you through parts of the solution. In labs we will also focus on adhering to the discipline of programming which we adopt for this class. Labs will be graded qualitatively on your progress in class, and demonstrated in the submitted work product, towards mastering the exercised skills. Projects, especially later projects, require you to write longer and more substantial programs, often with less structure provided than in the labs.
- **Midterm tests**: 25%
  The midterm tests each cover a particular set of knowledge. They are not explicitly cumulative, in the sense that their questions will focus on the topics for that test, and not on past topics. However, the material of this course is highly cumulative in nature: so you may need to use the skills from past topics in order to answer questions correctly. For example, answering questions about arrays will require the ability to write loops, even though loops were a topic for CS120.
  The topics tested on the midterms are as follows:
  - Midterm 0: Topics from the prerequisite course CS120. Appendix C of the course pack contains a list of the department’s learning outcomes for CS120; all of these topics are in scope for this test except GUI programming.
  - Midterm 1: The stack-and-heap model of program execution, recursion, asymptotic complexity, exceptions (Section 1 of the course pack).
  - Midterm 2: Classes and objects (Section 2 of the course pack).
  - Midterm 3: Arrays (Section 3 of the course pack).
  - Midterm 4: Linked lists, stacks, queues (Section 4 of the course pack).
In calculating the share of each midterm towards your final grade, I will weigh the last four midterms evenly, and will weigh Midterm 0 at half the weight of each of the others.

- **Final examination**: 25%
  - The final examination will be cumulative over the topics we cover.

- **Participation and professionalism**: 3%
  - Partial credit for programs, whether on examinations or projects, may be awarded only for programs whose design is documented via comments in the manner expected under our program design discipline.

### Final grades

I will convert a weighted average percentage $g$ to a letter grade no more strictly than as follows:

<table>
<thead>
<tr>
<th>$g$</th>
<th>Grade</th>
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<tbody>
<tr>
<td>$95.0 \leq g$</td>
<td>A</td>
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<tr>
<td>$90.0 \leq g &lt; 95.0$</td>
<td>AB</td>
</tr>
<tr>
<td>$84.0 \leq g &lt; 90.0$</td>
<td>B</td>
</tr>
<tr>
<td>$78.0 \leq g &lt; 84.0$</td>
<td>BC</td>
</tr>
<tr>
<td>$70.0 \leq g &lt; 78.0$</td>
<td>C</td>
</tr>
<tr>
<td>$60.0 \leq g &lt; 70.0$</td>
<td>D</td>
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</tbody>
</table>

Lower results do not earn a passing grade. In addition, to get a final grade above C, you must pass the final exam. The university uses annotated F grades for cases of failure with cessation of class activity and attendance; where such grades are appropriate I will draw them from both the assignment results and attendance records.

### Feedback

*Formative assessments* are those whose purpose includes giving feedback to you, and shaping your learning. You will receive feedback on all formative assessments, and are expected to use that feedback to improve your future performance. Other work is considered *summative*, intended not for feedback or as learning tools but only as measurements of skill. You will not receive detailed feedback on summative assessments.

- Programming work due before Thanksgiving, as well as the first four midterm tests, are all considered formative. The last midterm may be treated as formative if time allows.
  - Feedback on lab work will often be delivered in person in the lab session; it is your responsibility to ask questions during labs when you are unable to complete the assignments. Feedback on programming assignments will come not only from me directly, but also from the Autolab submission system: you are responsible for reading the output of that system when you submit work to see where it finds incorrect or unimplemented aspects of your code.
- Later work is considered summative. The final project and the final examination are summative assessments, as well as programming work due after Thanksgiving (although I will return as much of it as early as possible). The last midterm may be deemed summative if time requires.
Procedures and policies

Textbooks and references

There is no required textbook for this class. However, students often benefit from having a reference at hand, and from having a source of extra study problems. Some texts which you should consider:

• There is a version of the online *Programming in Java* text from zyBooks for this class section. You can subscribe to this book, which will give you electronic access through the end of the semester, and the ability to make a print copy as well if you like. You may be eligible for a discount this semester if you subscribed to this book in a previous semester.

To subscribe to this textbook:
1. Sign up at [zyBooks.com](http://zyBooks.com)
2. Enter zyBook code *UWLAXCS220MaraistFall2019*
3. Click *Subscribe*


• O’Reilly books are often good quality references, although they tend not to have exercises.

Email and web page

The course website on the *cs.uwlax.edu* domain will be the primary means of communicating reference information across the whole class; electronic mail will be our primary means of personal communication and certain announcements.

**Course web site.** The main web page for this class is listed at the beginning of this document. All class announcements will be posted to that page, and you are responsible for checking it regularly. That page also includes an RSS feed for updates. There are several services which will provide email updates from RSS feeds which you can find by a web search; if you choose to use one, pay attention to how often they check the feed and send email.

**Email.** I will expect you to check your email regularly, and to read and understand messages relevant to this class. In particular, my feedback on your work will be delivered by email. By default I will use your school email address which I receive as part of the information about you that the university gives me, but I am happy to also use a different email address if you email it to me from your school email address. It is your responsibility to make sure that I have an email address which you can and will access regularly, and which you check at least once per business day. Note that we will not use electronic mail for submitting assignments; see the Submission and assessment of assignments section below. My university email account is the only forum which I regularly check; you should not attempt to communicate with me for class business via other email.
addresses, in-Canvas messaging, or other forms of social media.

For assistance with email or other matters relating to university computer and network services, contact [ITS] by phone at 608/785-8774, in person on the first floor of Wing Technology Center, or by email to helpdesk@uwlox.edu.

In general, during the semester I will respond to emails with questions about the material, requests for appointments, and other time-sensitive matters within one business day. For administrative matters, requests for regrades, or other matters which can wait a short while, I will usually respond within a week.

When you use email, make sure that you:

**Include your full name.** There’s a small army of you, and one of me. Make sure it is easy for me to know who you are.

**Mention this class by name or number.** All of your instructors are almost certainly teaching more than one section.

**Write professionally.** Observe the forms of casual business writing, write in complete sentences, and use your spell-checker. Keep in mind that email to an instructor about a class is a different medium, and requires a different voice, than texts to a friend.

I have posted links to a number of guides to effective emailing on a web page of resources, accessible from my University home page given above.
Attendance

I expect you to attend class. Our class meetings will be the only source for some class material, and will be the only venue for in-lab assignment components and tests. There are no "makeups" for in-class participation opportunities. If you miss class, it is your responsibility to get notes from a classmate. We will not use class time, nor prioritize office hours and appointment times, to review things missed due to nonattendance. When I keep attendance records for a class, this record will reflect attendance for all, or essentially all, of the class period.

Final examination times are scheduled by the university; make sure to plan any end-of-semester travel around them. Should an exam need to be rescheduled according to the university’s limit on the number of exams a student may take on the same day, you must give me notice as soon as you become aware of this situation. I will normally reschedule your exam to the first exam slot before our normal class slot in which you are not taking and I am not giving another exam.

Admission of latecomers to an examination may be refused after any student completes the exam and leaves the exam room.

I do not expect there to be review sessions for this class outside of regular lecture/lab times.

Submission and assessment of assignments

Each assignment is to be submitted via the electronic submission system detailed in that assignment. I expect that we will primarily use Autolab in this course, but you must always check each assignment for the correct procedure. We will *not* be using email for assignment submission; assignments emailed to me will *not* be considered validly or on-time submitted unless either the particular assignment specifically calls for email submission, or I have specifically instructed you to email me an assignment. You are responsible for ensuring that you upload the correct file to Autolab, and in the case of multifile submissions packed as a ZIP archive, for ensuring that the correct contents are all included in the submission: in particular, make sure that Autolab’s output reports that it found correctly-packed work; or if we use Canvas or some other submission mechanism, that you re-download your work to make sure that the server actually has the file(s) you expect. Submissions for programming assignments should consist of fully-functional code which behave as specified in the assignment.

The deadlines for the different types of assignment are as follows (except where a particular assignment specifies otherwise):

- Projects and homework specified on the course site or in slides/notes and turned in online are due by 8:00am of the deadline day.
- In-lab work is to be completed in the lab class for which it is assigned, and is due *promptly* by the end of the lab for which it is assigned.
My assessment of your coursework will be returned in compliance with FERPA regulations, either directly to you or via email. As described under Email above, I will email you either at your official university email (which only you are authorized to access), or to an alternate email address which you designate. In this way only you will have access to your grades unless you take specific action otherwise.

After you have completed the course, copies or records of your graded material that I retain will be accessible up to 7 weeks into the next academic term (either Spring after Fall or J-term; or Fall after Spring or Summer).

I plan to provide feedback on formative assessments submitted on-time within 21 days of the final deadline for that assessment, and to notify you when circumstances require delay.

**Assignments submitted late**

No credit will be awarded for homework or lab work submitted late.

Late credit **may** be allowed for the final submission of projects:
- Late submissions will be accepted from the deadline up to the time when I download your work from the server for further grading.
- When I download work from the server for grading, that submission point will be closed, and absolutely no further late work will be accepted.
- Do not email late (or otherwise) work to me unless I specifically instruct you to do so. If the Autolab submission point remains open, you may submit late work; if the Autolab submission point has closed, then you may no longer submit late work.
- I will always grade work as soon as I possibly can. Therefore, you should never assume that work will be accepted late at all.
- I will impose a reduction of 10% of the awarded percentage score on the grade of work submitted within 24 hours after the time at which it was due. I will impose a reduction of 40% of the awarded percentage score on the grade of work submitted over 24 hours past the deadline time.

See the Accommodations for individual circumstances section below for extenuating circumstances that impact your ability to meet deadlines or participate in class activities.

**Equity of course execution**

This course will be delivered and assessed fairly, in the specific sense that all students in this section will have equivalent opportunities to demonstrate their mastery of the subject, and will be assessed according to the same criteria. The only assessed work and the only criteria for assessing that work, and thus for the grades derived from it, will be as set forth in this syllabus and in the specifications of assignments.

Mindfully attempting to be assessed by more lenient criteria than one's
colleagues, or by criteria other than the work for and conduct in this class as described in this syllabus, is unprofessional and will be considered a form of academic misconduct.

Errors and regrading

If you find an error in the evaluation of your work, you have the right to ask for it to be regraded.

- All requests for regrading must be by email.
- All requests for regrading must detail specifically where the suspected error was made, and what the error is.
- All requests for regrading should be made no sooner than 24 hours, but within one week, of the evaluation of the work being returned to you. If the assessment of some piece of work is returned in stages, the deadline for requesting a regrade will be within a calendar week of when the report containing the suspected error is returned to you.
- To ensure that a uniform standard is applied across the class, all regrading will use the same criteria and rubric applied to everyone else.
- In general, an entire assignment or exam may be regraded in response to a regrading request, even if your request addressed only a proper subset of the original. So make sure that errors to your detriment outweigh errors in your favor.

You will always be notified of errors I find in the evaluation of your work after it is returned to you, as well as any resulting change to your grade, even if you did not request a regrade.

Collaboration

I encourage you to work together to understand course material. Learning together is a great way to learn and share ideas, and is a useful professional skill. However, in order to actually learn something, it is important that you complete the real work of programming on your own. It is acceptable to:

- Discuss the general approach to an assessed problem with each other.
- Discuss and solve other, unassessed problems together.
- Work together to install software we’ll use, or get it to work properly on individual computers.
- Help each other figure out syntax errors when code isn’t compiling.
- Help each other isolate and debug problem spots when code isn’t running correctly.

However:

- It is **not OK** to write code together, or to copy code from anyone inside or outside of the class.
- It is **not OK** to simply copy code, whether from online, a book or printed article, other people, or any other source. You can use online references to get additional explanations of how Java works, or to learn programming techniques. But the only way to actually gain the skill of
programming is to write code yourself. Any improper behavior with respect to these guidelines will be dealt with as academic misconduct according to University policy.

**Academic integrity and acceptable use policies**

Academic misconduct is a violation of the UWL Student Honor Code and is unacceptable. I expect you to submit your own original work and participate in the course with integrity and high standards of academic honesty. When appropriate, cite original sources. Plagiarism or cheating in any form may result in a diminished grade or failure of the assignment or of the entire course, and may include harsher sanctions. As necessary I will use resources provided by the university or other services to verify the originality of submitted work. Refer to the Student Handbook for a detailed definition of academic misconduct.

In general,

- You can share ideas, but you may never share code.
- You must independently write all of the code you submit and never copy code from anyone inside or outside of the course to complete an assignment.
- You are expected to be able to fully explain every line of Java code that you write, and may be asked to do so for any given assignment.

In interpreting these general guidelines, "you" should be taken to mean the unit designated to complete one assignment. Except where explicitly stated otherwise in an assignment, all assignments are individual assignments, and it is individuals who may not collaborate on code. Where an assignment is explicitly deemed to be a group assignment, the individuals within a group may freely share material with each other, but never with individuals in other groups.

The article ‘Avoiding Plagiarism’ on the Murphy Library website offers helpful information on avoiding plagiarism. You may also visit the Office of Student Life if you have questions about plagiarism or cheating incidents. Failure to understand what constitutes plagiarism or cheating is not a valid excuse for engaging in academic misconduct. Acadia University offers a light-hearted ten-minute interactive tutorial on avoiding plagiarism at library.acadiau.ca/sites/default/files/library/tutorials/plagiarism

UWL and UWS policy also mandates responsible use of shared computing resources. In particular, your authorization for the use of administrative server resources such as course management systems (like Canvas), program submission and autoevaluation systems (like Auto-Lab), the course web site, or other assigned systems is strictly limited to the purpose described in course assignments and other material. Any disruption, exploration and/or exfiltration of system components is strictly prohibited, and may also constitute academic misconduct. Login credentials to university and other systems used for coursework may
not be shared, and any such sharing may be taken as firm and sufficient evidence of assignment non-originality. More information about the UWS policy on Acceptable Use of Information Technology Resources is available at www.wisconsin.edu/regents/policies/acceptable-use-of-information-technology-resources

**Professional conduct**

Interacting with peers and with me in a constructive, respectful and professional manner, being a constructive and supportive presence in class, handling difficulties with grace and resilience, operating as an autonomous and responsible adult, fulfilling commitments, and approaching work with enthusiasm are all valuable professional (and life) skills, and are firm expectations of this class. Part of your final grade in this class will be determined by the quality and consistency of your professional conduct, whether online, in class, or in office hours.

One aspect of being a constructive and supportive presence in class is simply not being disruptive to the class. Attendance carries the obligation of being a constructive presence, or at least, a non-disruptive presence. In particular:

- Cell phones and other electronics must be silenced for the duration of class. Consider using an app like [Shush](https://www.google.com/webhp?sourceid=chrome-instant&ion=1&ie=UTF-8#q=Shush) or [Silent Time](https://www.google.com/webhp?sourceid=chrome-instant&ion=1&ie=UTF-8#q=Silent+Time) (for Android), or [AutoSilent](https://www.google.com/webhp?sourceid=chrome-instant&ion=1&ie=UTF-8#q=AutoSilent) (for iPhone) to manage silencing your devices automatically.
- If you need to arrive to class late or leave early, be mindful of creating a minimum of disruption: sit near the exit and on the end of the aisle, pack lightly, and avoid using materials in class which are noisy on packing/unpacking.
- Research has shown that screen use in class is distracting not only to the student using a device, but also to that student's neighbors. So if you plan to use a screened device in class, I'll expect you to sit in the back row so that your screen distracts the fewest people. Likewise, if you plan not to use a screened device, you should sit away from the rearmost rows.

In cases of egregious, repeated or persistent disruptive conduct, of mindful discourtesy or of any intimidation of anyone in class, or of isolating or shaming conduct based on gender, race or other identity issues, I may require you to leave class immediately, possibly on an ongoing basis. Findings of academic misconduct and/or unacceptable use of course resources may also result in loss of graded credit for professional conduct. In particular academic misconduct on a project, major assignment or any examination, as well as multiple instances academic misconduct and/or unacceptable use of course resources, will result in the loss of most if not all credit for professional conduct.

In laboratory sessions,
- Be gentle with lab computers.
• Speak in quiet tones in the lab to avoid disturbing others.
• It is permissible to assist neighboring colleagues with debugging when they are stuck on a particular problem. However:
  – You may not copy any aspect of your lab work from a colleague, nor provide your work to them for duplication.
  – You may not interrupt colleagues, who have their own work to do, to repeatedly ask for help; raise your hand and I will answer your question as soon as I can. Moreover you should remain at your own computer unless you are leaving the lab; moving about the lab for conversations is disruptive to others.
• Use of headphones in lab is unprofessional and strongly discouraged. I will frequently announce important material, and cannot repeat it individually simply because you excluded yourself from listening with the group.
• Do not touch computer screens; use the mouse when indicating particular items to me or to a colleague.
• Food is not allowed in the lab. Drinks in closed containers are permitted but may not be placed on the same desk as a computer or keyboard — keep them on the floor, where a spill will not destroy equipment.
• We recommend that you use hand sanitizer when leaving the lab; keyboards and mice are notorious vectors for communicable disease.

Concerns or complaints

If you have a concern or a complaint about either the course or me, I encourage you to bring it to my attention. My hope would be that by communicating your concern we would be able to come to a resolution. If you are uncomfortable speaking with me, or if you feel your concern has not been resolved after bringing it to my attention, you can contact my department chair or the Office of Student Life.

The Student Academic Non-Grade Appeals process can be found in the Student Handbook. Information about appeals and petitions for academic matters is in the UWL Catalog.

I normally give anonymized examinations: you will sit at a desk tagged with your name; rather than writing your name on the exam, you will write the number on that tag. The anonymity allows us all to be more confident in the accuracy and uniformity of assessment across the class. However, that anonymity extends only through the completion of assessing the individual exam questions. After marking I will de-anonymize the exam papers to understand both individual and group trends and weaknesses, and to address them through subsequent improvements to the class. So exam papers should not be considered an anonymous forum for suggestions or complaints.
Sexual harassment

As an employee of the University of Wisconsin-La Crosse, I am a mandated reporter of sexual harassment and sexual violence (which include sexual assault, domestic violence and stalking) that either takes place on campus or otherwise affects the campus community.

So if I receive detailed or specific information about an incident such as the date, time, location, or identity of the people involved, I am obligated to share this with UWL's [Title IX Coordinator] in order to enable the university to take appropriate action to ensure the safety and rights of all involved. It does not matter whether the incident took place on- or off-campus; it matters only that a person who is a member of this campus was involved in the incident.

It is possible that course assignments may lend themselves to disclosure, but you should not share any details of an incident with me until you have discussed your options under the new Title IX guidelines. There are confidential reporters available to students at UWL where you can have this discussion.

For students not wishing to make an official report, there are confidential resources available to provide support and discuss the available options. The contact in Student Life is Ingrid Peterson, Violence Prevention Specialist, 608/785-8062, ipeterson@uwln.edu. For more resources or to file a report, please see [www.uwln.edu/violence-prevention].

I am also happy to help direct you to counseling and support services. Simply ask me to assist you in locating a confidential reporter and I will help you to do so.

Class interruptions and cancellations

In the event of a campus incident that impacts the availability of teaching spaces, any changes or cancellations will be communicated to you via your university email account. Depending on the incident, some or all of the information might be posted on the UWL home page.

In the event of inclement weather, we will follow the [University’s closure policy]. If classes are not canceled, I will make every effort to be in class on time, and so should you. Please do not send me email asking whether class is going to meet; instead, check the university website. The university’s emergency readiness plan is available [online]; that page also describes sign-ups for individual emergency alerts. In the event of a cancellation, consult the course homepage for any alternative assignments or other arrangements.
Accommodations for individual circumstances

It is my goal that all students have equivalent opportunities to succeed in this class. This section discusses the general procedures for alternative assessment accommodations in this class, as well as a number of specific situations for which there are standard mechanisms and policies in place to achieve the goal via accommodations for individual circumstances.

General procedures and constraints. Students may propose alternative assessments for assignments and exams for matters outside of a student's control such as documented non-chronic illness, bereavement, unplanned university equipment unavailability, or university program travel or activities.

- In almost all cases, you will work with a campus office (usually one of the ACCESS Center, Veterans Services Office, or Office of Student Life) to design and manage your accommodations. They will have confidential access to the full details of your situation, and so they will be the sole authority who can certify that the accommodations you propose are both necessary and sufficient for your situation. Moreover all accommodations shall be reviewed by the same office: the necessity and sufficiency of the overall accommodation for your situation cannot be accurately assessed otherwise.

- Any accommodation must also ensure that the required objectives for this course are assessed as thoroughly as under standard procedures. It is my role to judge whether any proposed accommodation meets this requirement.

- It is your responsibility to propose assessment alternatives which which are both approved by the overseeing campus office as necessary and sufficient to accommodate your circumstances, and approved by me as appropriate for the original assessment's objectives.

- All requests for accommodation must be accompanied by appropriate supporting documentation. In most cases this documentation will be reviewed by a separate group on campus such as the ACCESS Center or Veterans Services Office, and I will not see specific details. Where no such campus group applies, the specific form of documentation will be at my discretion.

- Proposals for alternative assessment must be made at least ten calendar days before any relevant major deadline or exam. If a proposal cannot be made in time due to medical or other emergency, the proposal should be made at the earliest possible point.

- Alternative assessment proposals should address relevant big-picture issues in addition to immediate course matters.

- Alternative assessment proposals must be explicit, and must be sent only by email or in writing.

- Students proposing alternative assessments should never simply assume that their proposal will be granted verbatim, and must allow time for thoughtful review of all proposals.
• Extracurricular and student groups/activities, planned personal trips, and similar elective activities are not considered to be outside of a student’s control, and do not qualify for alternative assessment.

• Accommodations are generally not available for the activities of other classes. Do not schedule activities for other classes during the lecture/lab/exam times of this class; you are not "free" at those times.

• Accommodations should enable you to complete the assessments for this class during the regular semester. I will avoid recording incomplete grades as part of an alternative assessment plan for any situation which has previously been addressed by accommodation, whether at UWL or other institution, whether via the ACCESS Center or not. Incomplete grades will also not be used where an advisor's or other credible recommendation for a reduced load, for a particular semester or on an ongoing basis, was disregarded or avoided: you are expected to design a feasible schedule with your (formal and informal) advisors.

• The goal of providing equivalent opportunities to succeed in this class to all students enrolled in the class means that there will not be individual variations to assessment in this class except as allowed in this section. Thus "extra credit" and other alternative assessments not included in the class-wide assessment plan are specifically disallowed.

Disabilities and medical conditions. Accommodations for a documented disability or medical condition are made via the ACCESS Center. You must contact The ACCESS Center and meet with an advisor to register documentation of your situation, and to develop and propose alternative assessments.

• Examples of the disabilities and conditions for which this procedure applies include, but are not limited to: ADHD; autism spectrum disorder; acquired brain injury; PTSD; and physical, sensory, psychological, or learning disabilities.

• The ACCESS Center is located at 165 Murphy Library, and is reachable by phone at 608/785-6900 and by email at ACCESSCenter@uwlax.edu. Interactions with the ACCESS Center and with instructors should be initiated promptly. For issues and conditions identified prior to the semester, you should contact the ACCESS Center prior to the semester in order to propose and confirm an accommodation plan before assignments are due. For issues arising during the semester, you should contact the ACCESS center to initiate their accommodations process promptly after a diagnosis. Accommodations will not be applied retroactively in the case of a delay in initiating the ACCESS Center process. Once some alternative assessment accommodation is arranged for you via the ACCESS Center in this class, any other accommodations for you as well as any changes or extensions to your accommodations, including those arising from changes in your underlying condition or disability, must also be arranged via ACCESS Center procedures (see Changes to accommodations below), and must follow the procedures described elsewhere in this syllabus.
You can find out more about services available to you with disabilities at The ACCESS Center website, www.uwlax.edu/access-center.

Veterans and active military personnel. Veterans and active military personnel with special circumstances (e.g., upcoming deployments, drill requirements, disabilities) are welcome and encouraged to discuss these issues with me, and I expect you to do so as far in advance as possible.

For additional information and assistance, contact the Veterans Services Office, www.uwlax.edu/veteran-services. Students who need to withdraw from class or from the university due to military orders should familiarize themselves with the university’s current military duty withdrawal policy, catalog.uwlax.edu/undergraduate/academicpolicies/withdrawal.

Religious accommodations. Per the UWL Undergraduate and Graduate Catalogs, "any student with a conflict between an academic requirement and any religious observance must be given an alternative means of meeting the academic requirement. The student must notify the instructor within the first three weeks of class of specific days/dates for which the student will request an accommodation. Instructors may schedule a make-up examination or other academic requirement before or after the regularly scheduled examination or other academic requirement."

University athletics. Student athletes are expected to submit the semester’s full schedule, including expected travel times and possible championship tournaments, by the end of the first week of class. I realize that your coaches’ official letter may not be ready by that time: that letter can come later. But you are able and expected to collect and convey the information yourself, and later follow up with the official documentation.

In the event of cancellations or postponed events, I expect you to inform me in email before our next class meeting of the cancellation. In that email, you should also indicate to the best of your knowledge whether the university is attempting to reschedule the event later in the semester.

Changes to accommodations. Accommodations can change by mutual consent to reflect changed circumstances. Changes should follow the same review and implementation mechanism as the original accommodation; in particular where the ACCESS Center reviewed and recommended original accommodations, I will expect changes or parallel accommodations to be reviewed and recommended through the ACCESS Center.
How to do well in the course

You want to do well in this course; I want you to do well in this course. Some simple ways to help make that happen are:

**Time management.** I cannot stress enough that programming courses are notoriously more time consuming than most other courses. You should expect the supplementary assignments and projects to take a significant amount of time to complete. Start assignments early to allow enough time to reflect on and wrestle with problems you encounter. Make sure you are allocating a sufficient amount of time each week outside of lecture to work on assignments and reviewing concepts.

**Prepare before you come to class.** Aside from the fact that the preparatory homeworks feed a meaningful portion of your final grade, they are essential to getting the most out of class. Arriving prepared by completing these homeworks and by reading ahead through the day’s slides allows you bring your own learning goals to class, gives you early warning of how difficult you will find the day’s material, and makes your class time more productive. If you wait until it is time to do a programming assignment to look at the material, it may be too late to help you.

**Stay current with the material.** All of the concepts in this course build on one another. Falling behind early in the course will cause problems understanding and succeeding with the material throughout the remainder of the course. Attending lecture, reviewing course materials each week, and staying current with the assignments will help you stay on track. If you are having trouble with a particular concept then you need to ask questions immediately.

**Ask and answer questions in class.** It’s easy to listen to others talk about a subject — so easy that you can convince yourself that you are more fluent in the subject than you really are. Participation is how you find out the limits of your understanding, and helps you build your plan for succeeding with the subject.

**Get help in person.** Get in touch with me when you have questions. Email is a perfectly reasonable way to contact me, but often a topic or question is better answered in person, especially when a longer exchange of several emails seems to drag on. Don’t hesitate to come to office hours or to ask for an appointment when this is the case — it’s best to clear up points of confusion quickly, before misunderstanding builds up.

There are other places on campus besides me where you can seek help: UWL offers academic skill building assistance at no additional cost to students (your fees and tuition have already paid for all of these services).

**Study with others.** Our class policies are clear that the work you submit must ultimately be your own. But you have leeway on collaborating on *general* class work for understanding the material and the assignment statements, for debugging programs which you’ve written, and for working other, unassessed practice problems. Take advantage of the opportunity
to learn with your colleagues. Study groups will become ever more impor-
tant as you move through your degree, and the ability to learn together
will serve you well throughout your career.