



# CS160 Orientation to Computer Science

## Instructor Information

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Office Hours: by appointment (via [Zoom](#))

## Course Information

CRN: 43167

Number of credits: 4

## Course Description

This course is designed as a survey course to familiarize students with computer concepts including software and hardware, software applications, and living online leading towards digital computer literacy.

## Student Learning Outcomes

- Demonstrate an understanding of the differences between data types.
- Perform conversions from decimal to two's complement and floating-point notations.
- Write and interpret short machine code instructions to perform simple arithmetic computations.
- Describe algorithms in pseudo-code and implement an algorithm in a programming language.
- Demonstrate an understanding of the concept of abstraction
- Describe the difference between syntax and semantics.
- Summarize the duties and functions of an operating system.
- Demonstrate an awareness of social issues associated with the increased use of computing technology in modern society.

## Course Materials

### Required:

- *Computer Science: An Overview*, Brookshear and Brylow; [digital access](#). You will receive an email detailing how to access the text via Moodle.
- [Automate the Boring Stuff](#)–“Practical programming for total beginners.” A completely free online text that starts by teaching you the basics of Python and beyond. (Scroll towards the bottom of the page to find the table of contents and links to each individual chapter.)

- A minimum 2GB USB thumb drive.
- LBCC Gmail account.
- Internet access.
- A [Zoom](#) account.
- We will be using Moodle. I suggest you visit the course Moodle shell before our first class and check it frequently for updated information. Before logging into Moodle for the first time you will have to claim your account at [identity.linnbenton.edu](http://identity.linnbenton.edu) (this is a one-time process). If you have any problems claiming your account or logging into Moodle please contact the Student Help Desk at 541-917-4630 or [student.helpdesk@linnbenton.edu](mailto:student.helpdesk@linnbenton.edu).

### **Optional:**

- A webcam.
- Speakers/headphones/earbuds.
- A microphone.

## **Class Policies**

### **Behavior and Expectations**

You will be held accountable to the [Student Code of Conduct](#), which outlines expectations pertaining to academic honesty (including cheating and plagiarism), classroom conduct, and general conduct.

### **Guidelines for Communication**

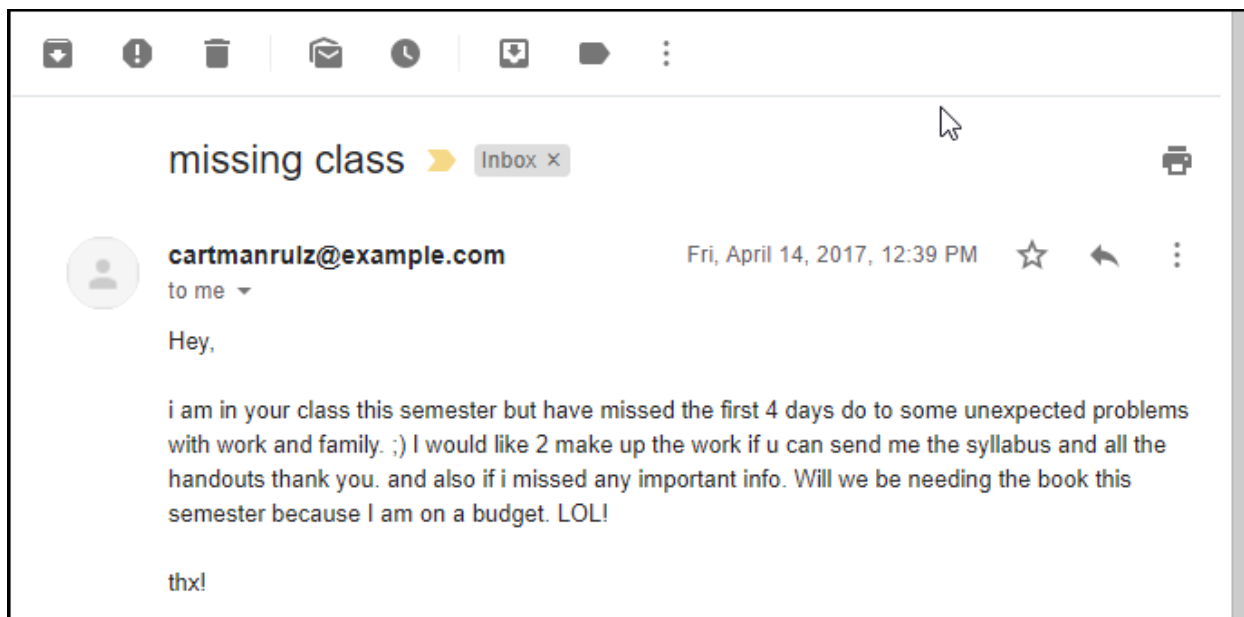
*Please do not call me.* I will not be checking my office voicemail this term. You will not get a response.

*Please do not use Moodle's built-in messaging.* Again, you will likely not get a response.

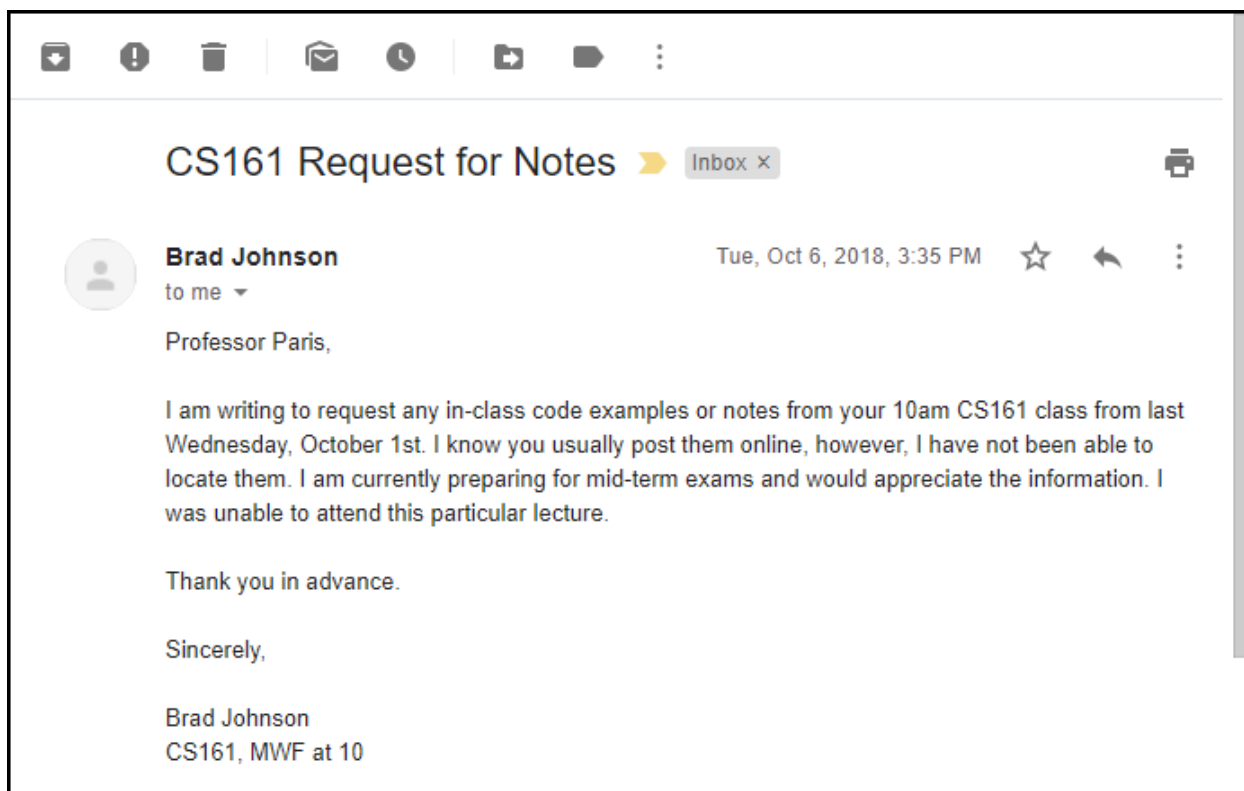
The *best* way to reach your instructor is by email. I check my email regularly during business hours and your message will receive a prompt reply.

While they need not be strictly formal your emails should be concise, list necessary details, and written in a manner that would be appropriate for communicating with your boss.

Below is an example of a poorly written email. Yes, this is a real email. The names have been changed to protect the guilty.



And here is an example of a much more appropriate email.



The wikiHow page [How to Email a Professor](#) has many excellent tips on writing these kinds of emails and you are strongly encouraged to read it.

## Course Work

All work, unless specifically stated otherwise, is to be submitted electronically via Moodle.

Assignments may not be submitted via email.

Late assignments will not be accepted. No exceptions.

## Missed Work

In case of absence from class, students are responsible for announcements made and materials covered. These will be available via Moodle.

## Grading

Type	Weight
10 Quizzes (the lowest score will be dropped)	30%
10 Assignments (the lowest score will be dropped)	30%
5 Social Issues Online Discussions	10%
Python Project	30%

Letter Grade	Percentage	Performance
A	90%–100%	Excellent Work
B	80%–89.9%	Good Work
C	70%–79.9%	Average Work
D	60%–69.9%	Poor Work
F	0%–59.9%	Failing Work

Note: A grade of “C” is considered passing.

## Campus Resources

### Resources and Information for COVID-19

Quite possibly the most important resource for us all this term will be [LBCC's Coronavirus/COVID-19 information page](#). A close second may be the [FAQS for students page](#).

### Tutoring

As an LBCC student you are eligible for up to three *free* tutoring sessions per week in a any of a wide variety of subjects. See the [Tutoring Center](#) web page for more information.

### The Writing Center

Writing assistants are available to help you with any class in which writing is assigned and at any stage of the writing process, from brainstorming to a final draft. They also

assist students with non-academic writing like scholarship essays, resumes, and creative writing. See more at the [Writing Center web page](#).

### **Basic Needs**

Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to contact the Roadrunner Resource Center for support via email at [resources@linnbenton.edu](mailto:resources@linnbenton.edu) or visit us on the web at [www.linnbenton.edu/RRC](http://www.linnbenton.edu/RRC). Our office can help students get connected to resources to help. Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to provide any resources that they may possess.

## **College Policies**

### **LBCC Email and Course Communications**

You are responsible for all communications sent via Moodle and to your LBCC email account. College policy requires that you use your LBCC provided email account for all email communications at the College.

### **Disability and Access Statement**

You should meet with your instructor during the first week of class if:

1. You have a documented disability and need accommodations.
2. Your instructor needs to know medical information about you.
3. You need special arrangements in the event of an emergency.

If you have documented your disability, remember that you must make your request for accommodations through the Center for Accessibility Resources (CFAR) [Online Services webpage](#) every term in order to receive accommodations. If you believe you may need accommodations but are not yet registered with CFAR, please visit the [CFAR Website](#) for steps on how to apply for services or call (541) 917-4789.

### **Statement of Inclusion**

To promote academic excellence and learning environments that encourage multiple perspectives and the free exchange of ideas, all courses at LBCC will provide students the opportunity to interact with values, opinions, and/or beliefs different than their own in safe, positive and nurturing learning environments. LBCC is committed to producing culturally literate individuals capable of interacting, collaborating and problem-solving in an ever-changing community and diverse workforce.

### **Title IX Reporting Policy**

If you or another student are the victim of any form of sexual misconduct (including dating/domestic violence, stalking, sexual harassment), or any form of gender discrimination, LBCC can assist you. You can [report](#) a violation of our sexual misconduct policy directly to our Title IX Coordinator. You may also report the issue to a faculty member, who is required to notify the Coordinator, or you may make an appointment to speak confidentially to our Advising and Career Center by calling 541-917-4780.

## Changes to the Syllabus

I reserve the right to change the contents of this syllabus due to unforeseen circumstances. You will be given notice of relevant changes in class, through a Moodle Announcement, or through LBCC email.

## Class Calendar

Week	Activity	Due
Week-1 April 6	Welcome, introduction, scope & set clear expectations Data Storage <ul style="list-style-type: none"><li>• Read Chapter 1.1–1.4 in Brookshear</li><li>• Week-1 quiz</li><li>• Week-1 assignment</li><li>• Social Issue Discussion 1</li></ul>	April 12 @ 11:55 pm
Week-2 April 13	Data Storage Continued <ul style="list-style-type: none"><li>• Read Chapter 1.5–1.7 in Brookshear</li><li>• Read <a href="#">Chapter 0 of Automate the Boring Stuff</a> (hereafter known as ATBS)</li><li>• Install Python on your computer as described in Chapter 0 of ATBS</li><li>• <b>OPTIONAL:</b> you may install Mu as discussed in Chapter 0 of ATBS if you like; I will most likely use both it and IDLE for demonstrations</li><li>• Week-2 quiz</li><li>• Week-2 assignment</li></ul>	April 19 @ 11:55 pm
Week-3 April 20	Data Manipulation <ul style="list-style-type: none"><li>• Read Chapter 2.1–2.7 in Brookshear</li><li>• Week-3 quiz</li><li>• Week-3 assignment</li><li>• Social Issue Discussion 2</li></ul>	April 26 @ 11:55 pm
Week-4 April 27	Operating Systems <ul style="list-style-type: none"><li>• Read Chapter 3.1–3.3, 3.5 in Brookshear</li><li>• Read <a href="#">Chapter 1 in ATBS</a></li><li>• Week-4 quiz</li><li>• Week-4 assignment</li></ul>	May 3 @ 11:55 pm
Week-5 May 4	Networking and the Internet <ul style="list-style-type: none"><li>• Read Chapter 4.1–4.4, 4.6 in Brookshear</li><li>• Week-5 quiz</li><li>• Week-5 assignment</li><li>• Social Issue Discussion 3</li></ul>	May 10 @ 11:55 pm

Week	Activity	Due
Week-6 May 11	Algorithms <ul style="list-style-type: none"> <li>• Read Chapter 5.1–5.6 in Brookshear</li> <li>• Read <a href="#">Chapter 2 in ATBS</a></li> <li>• Week-6 quiz</li> <li>• Week-6 assignment</li> <li>•</li> </ul>	May 17 @ 11:55 pm
Week-7 May 18	<ul style="list-style-type: none"> <li>• Read Chapter 6.1–6.5 in Brookshear</li> <li>• Week-7 quiz</li> <li>• Week-7 assignment</li> <li>• Social Issue Discussion 4</li> </ul>	May 24 @ 11:55 pm
Week-8 May 25	<ul style="list-style-type: none"> <li>• Read <a href="#">Chapter 3 in ATBS</a></li> <li>• Week-8 quiz</li> <li>• Week-8 assignment</li> </ul>	May 31 @ 11:55 pm
Week-9 June 1	<ul style="list-style-type: none"> <li>• Read <a href="#">Chapter 4 in ATBS</a></li> <li>• Week-9 quiz</li> <li>• Week-9 assignment</li> <li>• Social Issue Discussion 5</li> </ul>	June 7 @ 11:55 pm
Week-10 June 8	<ul style="list-style-type: none"> <li>• Python Project–this will be your only assignment this week; note that unlike other assignments, it is due <i>Friday</i> (June 12)</li> </ul>	<b>June 12</b> <b>@ 11:55 pm</b>