

# Syllabus

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This is a single, concatenated file, suitable for printing or saving as a PDF for offline viewing. Please note that some animations or images may not work.

## Course Description

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This [module](#) is also available as a concatenated page, suitable for printing or saving as a PDF for offline viewing.

### MET CS 526

#### Data Structures and Algorithms

This course offers a comprehensive study of fundamental data structures and algorithms used in computer science. Students will be equipped with the problem-solving skills and knowledge to solve challenging computational problems and implement data structures using a high-level programming language. Algorithms are analyzed, decomposed, and expressed using pseudocode.

**Prerequisites:** MET CS 300 and either MET CS 520 or MET CS 521. Or instructor consent.

#### Technical Note

The table of contents expands and contracts (+/- sign) and may conceal some pages. To avoid missing content pages, you are advised to use the next/previous page icons in the top right corner of the learning modules.

This course requires you to access files such as word documents, PDFs, and/or media files. These files may open in your browser or be downloaded as files, depending on the settings of your browser.

## Learning Objectives

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By successfully completing this course, you will be able to do the following:

- Use fundamental data structures to support the implementation of algorithms.
- Deeply understand of algorithmic design and analysis.
- Use computational problem-solving skills (enhanced with hands-on assignments) to work on real-world projects.
- Implement algorithms using pseudocode.
- Describe trade-offs between efficiency, correctness, and other resources when choosing algorithms.
- Illustrate the execution of the pseudocode of an algorithm, using a sample input.

## Instructor

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**Ming Zhang**

Assistant Professor

Computer Science Department

Metropolitan College

Boston University

Email: [mzhang2@bu.edu](mailto:mzhang2@bu.edu)

Dr. Ming Zhang received his B.S. and Ph.D. in the field of Computer Science, focusing on Computer Vision, Machine Learning, and Artificial Intelligence. Dr. Zhang teaches various computer science courses at both undergraduate and graduate levels. He created an Artificial Intelligence and Computer Vision (AICV) Lab to promote interdisciplinary teaching and research by developing new technologies and software tools, providing hands-on experience for students, and fostering multidisciplinary collaborations with hospitals. Dr. Zhang has received grants from NSF, NIH, FDA, and the Rheumatology Research Foundation as a principal investigator or co-investigator. He has over 80 peer-reviewed publications in various prestigious journals and referred conference proceedings.

Additional information can be found on his webpage: <https://sites-staging.bu.edu/aicv/>

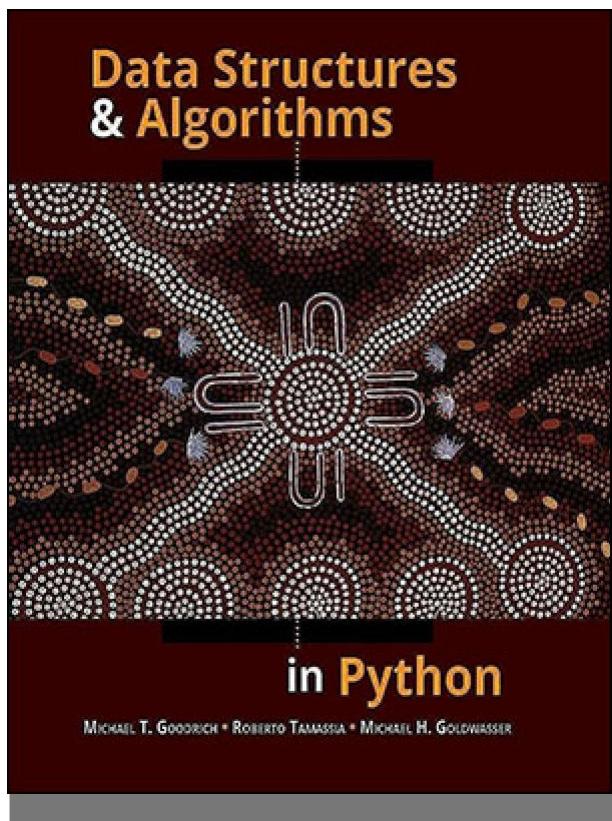
## Course Materials and Resources

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### Required Book

You have the option to use one of the following books:

**Goodrich, M. T., Tamassia, R., & Goldwasser, M. T. (2013). *Data structures and algorithms in Python* (1st ed.).**

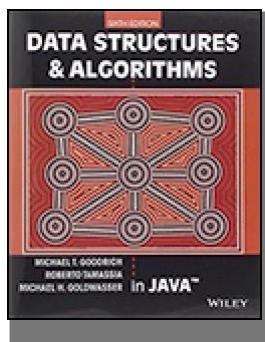


John Wiley & Sons

ISBN-13: 978-1118290279

This book can be purchased from [Barnes and Noble at Boston University](#).

OR:



Goodrich, M. T., Tamassia, R., & Goldwasser, M. T. (2014). *Data Structures and Algorithms in Java* (6th ed.).

John Wiley & Sons

ISBN-13: 978-1118771334

This book can be purchased from [Barnes and Noble at Boston University](#).

## Tools Requirements

1. Broadband internet
2. PC, Mac, or Linux with comfortable screen size for editing source code
3. Internet browser (Firefox, Chrome, Free Download)
4. A zip compression utility
5. PDF reader (Adobe Reader or Foxit Reader, free download)
6. An integrated development environment (IDE) is recommended (any IDE is okay), but not required.
7. Java Development Kit (JDK; free download)

## Boston University Library Information

Boston University has created a set of videos to help orient you to the online resources at your disposal. An introduction to the series is below:

met\_ode\_library\_14\_sp1\_00\_intro video cannot be displayed here

All of the videos in the series are available on the [Online Library Resources](#) page, which is also accessible from the Campus Bookmarks section of your Online Campus Dashboard. Please feel free to make use of them.

As Boston University students, you have full access to the [BU Library](#). From any computer, you can gain access to anything at the library that is electronically formatted. You may use the library's content whether you are connected through your online course or not, by confirming your status as a BU community member using your Kerberos password.

Once in the library system, you can use the links under "Resources" and "Collections" to find databases, eJournals, and eBooks, as well as search the library by subject. Some other useful links follow:

Go to [Collections](#) to access eBooks and eJournals directly.

If you have questions about library resources, go to [Ask a Librarian](#) to email the library or use the live-chat feature.

To locate course eReserves, go to [Reserves](#).

Please note that you are not to post attachments of the required or other readings in the Water Cooler or other areas of the course, as it is an infringement on copyright laws and department policy. All students have access to the library system and will need to develop research skills that include how to find articles through library systems and databases.

# Free Tutoring Service

Free online tutoring services by Tutor.com are available to BU online students for the duration of their eligible online course. Tutor.com is a web-based service that provides an online writing lab and access to on-demand and scheduled tutoring sessions for writing, math, business, coding languages, and other subjects. Students can submit a question to a tutor, submit a paper for feedback about writing and grammar, or schedule a live session with a tutor.

You can log in directly to Tutor.com from Blackboard Online Campus by clicking the link in the left-hand navigation menu within your online course. All activity in the Tutor.com classroom is recorded for learner review and quality control. Transcripts will be available afterward in My Account under My Locker in your Tutor.com account.

## Please Note

Tutor.com services may be used only for current Boston University online courses and career services. Use of this service for purposes other than current coursework or career services may result in deactivation of your Tutor.com account.

# Study Guide

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This course starts on a **Tuesday**. The modules in this course run from **Tuesday to Monday**.

## Module 1 Study Guide and Deliverables March 11 - March 17

Topics:	<ul style="list-style-type: none"><li>• Programming Concepts Review</li><li>• OO Concepts Review</li><li>• Arrays</li><li>• Linked Lists</li><li>• Recursion</li></ul>
Readings:	<ul style="list-style-type: none"><li>• Module 1 online content</li><li>• Textbook readings:<ul style="list-style-type: none"><li>◦ Java Textbook: Chapter 1, Chapter 2, Chapter 3, Appendix A</li></ul></li></ul>

...or

- Python Textbook: Chapter 1, Chapter 2, Chapter 5, Chapter 7, Appendix A

Assignments: 

- Assignment 1 due **Tuesday, March 18, at 6:00 AM ET**

- Lab 1 due **Tuesday, March 18, at 6:00 AM ET**

Assessments: 

- Quiz 1 due **Tuesday, March 18, at 6:00 AM ET**

Live 

- **Tuesday, March 11, 7:00-8:30 PM ET**

Classrooms: 

- **Wednesday, March 12, 7:00-8:30 PM ET**

## Module 2 Study Guide and Deliverables March 18 - March 24

Topics: 

- Algorithm Analysis
- Analysis of Recursive Algorithms
- Stacks and Queues
- List

Readings: 

- Module 2 online content
- Textbook readings:
  - Java Textbook: Chapter 4, Chapter 5, Chapter 6

...or

- Python Textbook: Chapter 3, Chapter 4, Chapter 6

Assignments: 

- Assignment 2 due **Tuesday, March 25, at 6:00 AM ET**

- Lab 2 due **Tuesday, March 25, at 6:00 AM ET**

Assessments: 

- Quiz 2 due **Tuesday, March 25, at 6:00 AM ET**

Live 

- **Tuesday, March 18, 7:00-8:30 PM ET**

Classrooms: 

- **Wednesday, March 19, 7:00-8:30 PM ET**

## Module 3 Study Guide and Deliverables

### March 25 - March 31

Topics: 

- Trees
- Search Trees

Readings: 

- Module 3 online content
- Textbook readings:
  - Java Textbook: Chapter 8, 11

...or

◦ Python Textbook: Chapter 8, 11

Assignments: 

- Assignment 3 due **Tuesday, April 1, at 6:00 AM ET**
- Lab 3 due **Tuesday, April 1, at 6:00 AM ET**

Assessments: 

- Quiz 3 due **Tuesday, April 1, at 6:00 AM ET**

Live 

- **Tuesday, March 25, 7:00-8:30 PM ET**

Classrooms: 

- **Wednesday, March 26, 7:00-8:30 PM ET**

## Module 4 Study Guide and Deliverables

### April 1 - April 7

Topics: 

- Priority Queues and Heaps
- Maps and Hash Tables

Readings: 

- Module 4 online content
- Textbook readings:
  - Java Textbook: Chapter 9, Chapter 10  
(except 10.4)

...or

◦ Python Textbook: Chapter 9, Chapter 10  
(except 10.4)

Assignments: 

- Assignment 4 due **Tuesday, April 8, at 6:00 AM ET**

- Lab 4 due **Tuesday, April 8, at 6:00 AM ET**
- Assessments:
  - Quiz 4 due **Tuesday, April 8, at 6:00 AM ET**
- Live
  - **Tuesday, April 1, 7:00-8:30 PM ET**
- Classrooms:
  - **Wednesday, April 2, 7:00-8:30 PM ET**

## Module 5 Study Guide and Deliverables

### April 8 - April 14

Topics:

- Sorting and Selection
- Stable Matching
- Greedy Algorithms
- Dynamic Programming

Readings:

- Module 5 online content
- Textbook readings:
  - Java Textbook: Chapter 12, Chapter 13  
(13.4, 13.5)

...or

- Python Textbook: Chapter 12, Chapter 13  
(13.4, 13.5)

Assignments:

- Assignment 5 due **Tuesday, April 15, at 6:00 AM ET**
- Lab 5 due **Tuesday, April 15, at 6:00 AM ET**

Assessments:

- Quiz 5 due **Tuesday, April 15, at 6:00 AM ET**

Live

- **Tuesday, April 8, 7:00-8:30 PM ET**

Classrooms:

- **Wednesday, April 9, 7:00-8:30 PM ET**

## Module 6 Study Guide and Deliverables

### April 15 - April 21

Topics:

- Graph Algorithms
- Computational Complexity

Readings: 

- Module 6 online content
- Textbook readings:
  - Java Textbook: Chapter 14 (except 14.4)

...or

Assessments: 

- Assignment 6 due **Tuesday, April 22, at 6:00 AM ET**
- Lab 6 due **Tuesday, April 22, at 6:00 AM ET**

Assessments: 

- Quiz 6 due **Tuesday, April 22, at 6:00 AM ET**

Live **Tuesday, April 15, 7:00-8:30 PM ET**

Classrooms: **Wednesday, April 16, 7:00-8:30 PM ET**

Course Please complete the [course evaluation](#) once you receive  
Evaluation: an email or Blackboard notification indicating the  
evaluation is open. Your feedback is important to MET,  
as it helps us make improvements to the program and  
the course for future students.

## Final Exam Details

The Final Exam is a proctored exam available from **Wednesday, April 23, at 6:00 AM ET to Saturday, April 26 at 11:59 PM ET**. The exam is only accessible during the final-exam period. You can access it from the Assessments section of the course.

The Computer Science Department requires that all final exams be administered using an online proctoring service, which you will access via your course in Blackboard. In order to take the exam, you are required to have a working computer, webcam, speakers, and microphone that meet the proctoring service's system requirements. A detailed list of those requirements can be found in the Proctored Exam Information module located on the course home page. Additional information regarding your proctored exam will be forthcoming from the Assessment Administrator. You will be responsible for scheduling your proctored exam session within the defined exam window.

Final-exam Duration: **3 hours**.

The exam consists of **multiple-choice and multiple-answer questions**.

# Grading Information

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Please check the **Study Guide** in the Syllabus for Live Classroom dates and specific due dates for assignments and assessments.

## Grading Structure and Distribution

The grade for the course is determined by the following:

Overall Grading Percentages	
Assignments	30
Labs	30
Quizzes	10
Proctored Final Exam	30

94 ≤ G	A
90 ≤ G < 94	A-
87 ≤ G < 90	B+
83 ≤ G < 87	B
80 ≤ G < 83	B-
77 ≤ G < 80	C+
73 ≤ G < 77	C
70 ≤ G < 73	C-
60 ≤ G < 70	D
G < 60	F

# Graded Items

- **Assignments:** There is one assignment due during each module (check the due date in the Study Guide). The assignments reinforce the theory of the concepts we learn in class. You submit the assignment on Gradescope.
- **Labs:** There is one lab due each module (check the due date in the Study Guide). The labs provide students with a hands-on interview-like practical problem to extend the theory taught in class into a more real-world environment. You submit the lab on Gradescope.

## Gradescope for Assignments and Labs

Please watch [the video tutorial](#) or follow [the step-by-step guide](#) to learn how you can submit your assignments.

- **Quizzes:** There is one quiz due during each module (check the due date in the Study Guide). You submit the quiz in the "Assessments" area.
- **Proctored Final Exam:** There will be a proctored final exam in this course (check the final exam period in the Study Guide). Detailed instructions regarding your proctored exam are forthcoming from the assessment administrator. You will be responsible for scheduling your own appointment.

# Ungraded Items

- **Practice Questions:** There are practice questions built into each module, covering the module materials. They are not graded. You are encouraged to try them as often as you wish to practice your skills learned in the learning module.
- **Ungraded Discussion Forums:** There are ungraded discussion forums throughout the course. You are encouraged to share your knowledge and learn from your peers.
- **Live classroom sessions:** Live Classroom sessions will be offered during this course in Modules 1 to 6. Days/times will be posted in the Study Guide and the "Announcements" area.
  - Your participation, while not graded, will be valuable to you and the class. To participate in the Live Classroom discussion, you will need to go to the "Live Classroom/Offices" area. **If you are not able to attend the live classrooms, consider watching the recordings as mandatory.**
  - Live Classroom sessions will be recorded and archived for further viewing. You can go to the "Live Classroom Recordings" area to view the recordings.
  - You need to have speakers and a microphone for your computer. A headset is recommended.

# Expectations

It is important for each student to participate on a regular basis and complete all aspects of this course.

Due dates will be indicated in the Study Guide and in each graded item's section. If, for any reason, you are unable to meet any deadline, contact your course facilitator. Assignments are expected to be submitted by their respective due dates. Extensions may be granted, though **only under mitigating circumstances**. If your facilitator grants an extension, you will not be penalized. If you submit an assignment late without the permission of your facilitator, there will be a late penalty of 10% off your grade per day.

## Academic Conduct Policy

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Please visit Metropolitan College's website for the full text of the department's [Academic Conduct Code](#).

### A Definition of Plagiarism

“The academic counterpart of the bank embezzler and of the manufacturer who mislabels products is the plagiarist: the student or scholar who leads readers to believe that what they are reading is the original work of the writer when it is not. If it could be assumed that the distinction between plagiarism and honest use of sources is perfectly clear in everyone’s mind, there would be no need for the explanation that follows; merely the warning with which this definition concludes would be enough. But it is apparent that sometimes people of goodwill draw the suspicion of guilt upon themselves (and, indeed, are guilty) simply because they are not aware of the illegitimacy of certain kinds of “borrowing” and of the procedures for correct identification of materials other than those gained through independent research and reflection.”

“The spectrum is a wide one. At one end there is a word-for-word copying of another’s writing without enclosing the copied passage in quotation marks and identifying it in a footnote, both of which are necessary. (This includes, of course, the copying of all or any part of another student’s paper.) It hardly seems possible that anyone of college age or more could do that without clear intent to deceive. At the other end there is the almost casual slipping in of a particularly apt term which one has come across in reading and which so aptly expresses one’s opinion that one is tempted to make it personal property.”

“Between these poles there are degrees and degrees, but they may be roughly placed in two groups. Close to outright and blatant deceit-but more the result, perhaps, of laziness than of bad intent-is the patching together of random jottings made in the course of reading, generally without careful identification of their source, and then woven into the text, so that the result is a mosaic of other people’s ideas and words, the writer’s sole contribution being the cement to hold the pieces together. Indicative of more effort and, for that reason, somewhat closer to honest, though still dishonest, is the paraphrase, and abbreviated (and often skillfully prepared) restatement of

someone else's analysis or conclusion, without acknowledgment that another person's text has been the basis for the recapitulation."

The paragraphs above are from H. Martin and R. Ohmann, *The Logic and Rhetoric of Exposition, Revised Edition*. Copyright 1963, Holt, Rinehart and Winston.

# Academic Conduct Code

## I. Philosophy of Discipline

The objective of Boston University in enforcing academic rules is to promote a community atmosphere in which learning can best take place. Such an atmosphere can be maintained only so long as every student believes that his or her academic competence is being judged fairly and that he or she will not be put at a disadvantage because of someone else's dishonesty. Penalties should be carefully determined so as to be no more and no less than required to maintain the desired atmosphere. In defining violations of this code, the intent is to protect the integrity of the educational process.

## II. Academic Misconduct

Academic misconduct is conduct by which a student misrepresents his or her academic accomplishments, or impedes other students' opportunities of being judged fairly for their academic work. Knowingly allowing others to represent your work as their own is as serious an offense as submitting another's work as your own.

## III. Violations of this Code

Violations of this code comprise attempts to be dishonest or deceptive in the performance of academic work in or out of the classroom, alterations of academic records, alterations of official data on paper or electronic resumes, or unauthorized collaboration with another student or students. Violations include, but are not limited to:

- A. **Cheating on examination.** Any attempt by a student to alter his or her performance on an examination in violation of that examination's stated or commonly understood ground rules.
- B. **Plagiarism.** Representing the work of another as one's own. Plagiarism includes but is not limited to the following: copying the answers of another student on an examination, copying or restating the work or ideas of another person or persons in any oral or written work (printed or electronic) without citing the appropriate source, and collaborating with someone else in an academic endeavor without acknowledging his or her contribution. Plagiarism can consist of acts of commission-appropriating the words or ideas of another-or omission failing to acknowledge/document/credit the source or creator of words or ideas (see below for a detailed definition of plagiarism). It also includes colluding with someone else in an academic endeavor without acknowledging his or her contribution, using audio or video footage that comes from another source (including work done by another student) without permission and acknowledgement of that source.

- C. **Misrepresentation or falsification of data** presented for surveys, experiments, reports, etc., which includes but is not limited to: citing authors that do not exist; citing interviews that never took place, or field work that was not completed.
- D. **Theft of an examination.** Stealing or otherwise discovering and/or making known to others the contents of an examination that has not yet been administered.
- E. **Unauthorized communication during examinations.** Any unauthorized communication may be considered *prima facie* evidence of cheating.
- F. **Knowingly allowing another student to represent your work as his or her own.** This includes providing a copy of your paper or laboratory report to another student without the explicit permission of the instructor(s).
- G. **Forgery, alteration, or knowing misuse of graded examinations, quizzes, grade lists, or official records of documents,** including but not limited to transcripts from any institution, letters of recommendation, degree certificates, examinations, quizzes, or other work after submission.
- H. **Theft or destruction of examinations or papers** after submission.
- I. **Submitting the same work in more than one course** without the consent of instructors.
- J. **Altering or destroying another student's work or records,** altering records of any kind, removing materials from libraries or offices without consent, or in any way interfering with the work of others so as to impede their academic performance.
- K. **Violation of the rules governing teamwork.** Unless the instructor of a course otherwise specifically provides instructions to the contrary, the following rules apply to teamwork: 1. No team member shall intentionally restrict or inhibit another team member's access to team meetings, team work-in-progress, or other team activities without the express authorization of the instructor. 2. All team members shall be held responsible for the content of all teamwork submitted for evaluation as if each team member had individually submitted the entire work product of their team as their own work.
- L. **Failure to sit in a specifically assigned seat during examinations.**
- M. **Conduct in a professional field assignment that violates the policies and regulations of the host school or agency.**
- N. **Conduct in violation of public law occurring outside the University that directly affects the academic and professional status of the student, after civil authorities have imposed sanctions.**
- O. **Attempting improperly to influence the award of any credit, grade, or honor.**
- P. **Intentionally making false statements to the Academic Conduct Committee or intentionally presenting false information to the Committee.**
- Q. **Failure to comply with the sanctions imposed under the authority of this code.**

## Important Message on Final Exams

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Dear Boston University Computer Science Online Student,

As part of our ongoing efforts to maintain the high academic standard of all Boston University programs, including our online MSCIS degree program, the Computer Science Department at Boston University's Metropolitan College requires that each of the online courses includes a proctored final examination.

By requiring proctored finals, we are ensuring the excellence and fairness of our program. The final exam is administered online.

Specific information regarding final-exam scheduling will be provided approximately two weeks into the course. This early notification is being given so that you will have enough time to plan for where you will take the final exam.

I know that you recognize the value of your Boston University degree and that you will support the efforts of the University to maintain the highest standards in our online degree program.

Thank you very much for your support with this important issue.

Regards,

Professor Lou Chitkushev, Ph.D.  
Associate Dean for Academic Affairs  
Boston University Metropolitan College

## **Microsoft Azure Dev Tools for Teaching**

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Microsoft Azure Dev Tools for Teaching is a Microsoft program that supports technical education by providing access to Microsoft software for learning, teaching, and research purposes. Our membership allows faculty and students currently enrolled in MET courses to obtain certain Microsoft products free of charge. All MET students are granted access to download the software for the duration of their study at MET College.

FAQ and basic information are at [Microsoft Azure Dev Tools for Teaching](#). (You may have to enter your personal BU login credentials to access this page.)

## **Who's Who: Roles and Responsibilities**

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You will meet many BU people in this course and program. Some of these people you will meet online, and some you will communicate with by email and telephone. There are many people behind the scenes, too,

including instructional designers, faculty who assist with course preparation, and video and animation specialists.

## People in Your Online Course in Addition to Your Fellow Students

**Your Facilitator.** Our classes are divided into small groups, and each group has its own facilitator. We carefully select and train our facilitators for their expertise in the subject matter and their excellence in teaching. Your facilitator is responsible for stimulating discussions in pedagogically useful areas, for answering your questions, and for grading homework assignments, discussions, term projects, and any manually graded quiz or final-exam questions. If you ask your facilitator a question by email, you should get a response within 24 hours, and usually faster. If you need a question answered urgently, post your question to one of the urgent help topics, where everyone can see it and answer it.

**Your Professor.** The professor for your course has primary responsibility for the course. If you have any questions that your facilitator doesn't answer quickly and to your satisfaction, then send your professor an email in the course, with a cc to your facilitator so that your facilitator is aware of your question and your professor's response.

**Your Lead Faculty and Student Support Administrator, Jennifer Sullivan.** Jen is here to ensure you have a positive online experience. You will receive emails and announcements from Jen throughout the semester. Jen represents Boston University's university services and works for BU Virtual. She prepares students for milestones such as course launch, final exams, and course evaluations. She is a resource to both students and faculty. For example, Jen can direct your university questions and concerns to the appropriate party. She also handles general questions regarding Online Campus functionality for students, faculty, and facilitators, but she does not provide tech support. She is enrolled in all classes and can be contacted within the course through Online Campus email as it is running. You can also contact her by external email at [jensul@bu.edu](mailto:jensul@bu.edu) or call (617) 358-1978.

## People Not in Your Online Course

Although you will not normally encounter the following people in your online course, they are central to the program. You may receive emails or phone calls from them, and you should feel free to contact them.

**Your Computer Science Department Online Program Coordinator, Michelle Younger.** Michelle administers the academic aspects of the program, including admissions and registration. You can ask her questions about the program, registration, course offerings, graduation, or any other program-related topic. She can be reached at [metcsol@bu.edu](mailto:metcsol@bu.edu) or (617) 353-2566.

**Your Computer Science Department Program Manager, Crystal Kelley.** Crystal is responsible for administering most aspects of the Computer Science Department. You can reach Crystal at [kelleycr@bu.edu](mailto:kelleycr@bu.edu) or

(617) 353-2566.

**Professor Guanglan Zhang, Computer Science Department Chairman.** You can reach Professor Zhang at [guanglan@bu.edu](mailto:guanglan@bu.edu) or at 617-358-5688.

**Professor Lou T. Chitkushev, Associate Dean for Academic Affairs, Metropolitan College.** Dr. Chitkushev is responsible for the academic programs of Metropolitan College. Contact Professor Chitkushev with any issues that you feel have not been addressed adequately. The customary issue-escalation sequence after your course facilitator and course faculty is Professor Zhang, and then Professor Chitkushev.

**Professor Tanya Zlateva, Metropolitan College Dean.** Dr. Zlateva is responsible for the quality of all the academic programs at Boston University Metropolitan College.

## Disability and Access Services

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In accordance with University policy, every effort will be made to accommodate students with respect to speech, hearing, vision, or other disabilities. Any student who may need an accommodation for a documented disability should contact [Disability and Access Services](#) at 617-353-3658 or at [access@bu.edu](mailto:access@bu.edu) for review and approval of accommodation requests.

Once a student receives their accommodation letter, they must send it to their instructor and/or facilitator each semester. They must also send a copy to their Faculty & Student Support Administrator, who may need to update the course settings to ensure accommodations are in place. Accommodations cannot be implemented if the student does not send their letter.

## Netiquette

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BU Virtual has produced a netiquette guide to help you understand the potential impact of your communication style.

Before posting to any discussion forum, sending an email, or participating in any course or public area, please consider the following:

## Ask Yourself...

- How would I say this in a face-to-face classroom or if writing for a newspaper, public blog, or wiki?
- How would I feel if I were the reader?

- How might my comment impact others?
- Am I being respectful?
- Is this the appropriate area or forum to post what I have to say?

## Writing

When you are writing, please follow these rules:

- **Stay polite and positive in your communications.** You can and should disagree and participate in discussions with vigor; however, when able, be constructive with your comments.
- **Proofread your comments before you post them.** Remember that your comments are permanent.
- **Pay attention to your tone.** Without the benefit of facial expressions and body language, your intended tone or the meaning of the message can be misconstrued.
- **Be thoughtful and remember that classmates' experience levels may vary.** You may want to include background information that is not obvious to all readers.
- **Stay on message.** When adding to existing messages, try to maintain the theme of the comments previously posted. If you want to change the topic, simply start another thread rather than disrupt the current conversation.
- **When appropriate, cite sources.** When referencing the work or opinions of others, make sure to use correct citations.

## Reading

When you are reading your peers' communication, consider the following:

- **Respect people's privacy.** Don't assume that information shared with you is public. Your peers may not want personal information shared. Please check with them before sharing their information.
- **Be forgiving of other students' and instructors' mistakes.** There are many reasons for typos and misinterpretations. Be gracious and forgive other's mistakes or point them out privately and politely.
- **If a comment upsets or offends you, reread it and/or take some time before responding.**

### Important Note

Don't hesitate to let your instructor or your faculty and student support administrator know if you feel others are inappropriately commenting in any forum.

All Boston University students are required to follow academic and behavioral conduct codes. Failure to comply with these conduct codes may result in disciplinary action.

# Registration Information and Important Dates

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[View the drop dates for your course.](#)

[Withdraw or drop your course.](#)

- If you are dropping down to zero credits for a semester, please contact your college or academic department.
- **Nonparticipation in your online course does not constitute a withdrawal from the class.**
- If you are unable to drop yourself on MyBU Student Portal, please contact your college or academic department.
- Online courses will open to students in Blackboard on the first day of the term.
- Online courses close to students three weeks after the last day of the term. Please plan to download and save any assignments or material you'd like to keep by that date.

## Technical Support

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### Help Desk

Boston University IT Help Desk can be reached via email ([ithelp@bu.edu](mailto:ithelp@bu.edu)), phone (617-353-4357) or by filling out the [support form](#) on their website. For IT Help Desk hours of operation, visit the [contact page](#). If you are contacting IT outside of business hours, you will receive a response the following day. Visit the BU Information Services & Technology (IS&T) [news page](#) for announcements and system-wide alerts.

## Technology Requirements and Resources

To successfully view all content in your course, it is important that your computer setup meets the necessary minimum technical requirements. Certain courses with specific functionality or educational tools may require additional technical requirements, these details can be found on the Course Resources or Materials page in the Syllabus.

## System Requirements

- Access to reliable, high-speed internet: Check your [internet connection speeds](#)
- Learning Management System (Blackboard): [System Requirements](#)
- Synchronous live classroom sessions (Zoom): [System requirements for Windows, macOS, and Linux](#)
- Courses with proctored exams (Examity): [System requirements for Windows, macOS](#)
- Two-factor authentication service for BU applications: [Duo Security](#)

## Downloads

- Recommended web browsers: [Mozilla Firefox](#) or [Google Chrome](#)
- Synchronous live classroom sessions (Zoom): [Zoom download center](#)
- Courses with proctored exams (Examity): Desktop or laptop computer with [Google Chrome](#) or [Microsoft Edge](#)
- Two-factor authentication service for BU applications (Duo Security): optional [Duo Mobile download for iOS](#) or [Duo Mobile download for Android](#)

## Recommended Hardware

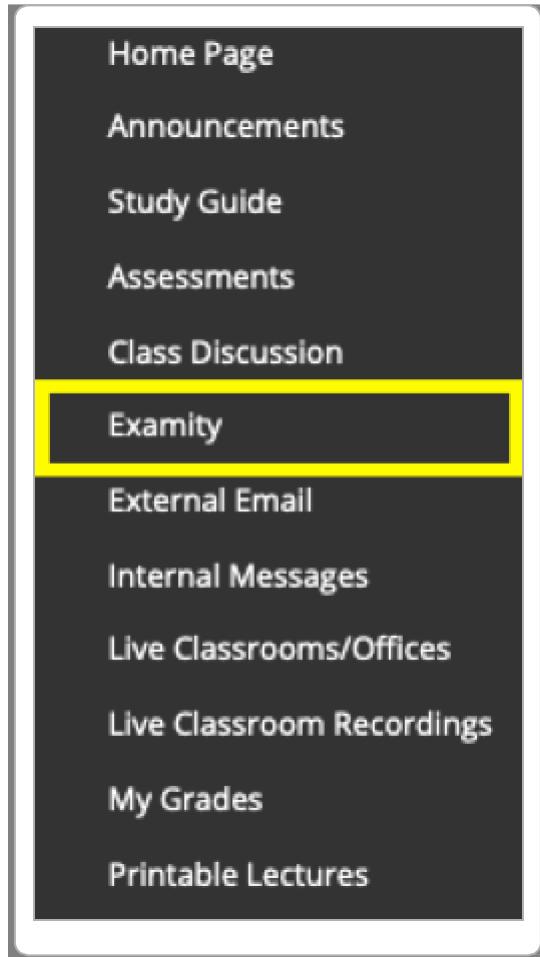
- Desktop or laptop computer recommended for best experience, some course functionality including proctored exams are not compatible with phones or tablets
- Headset with built-in microphone for high quality audio during live classroom sessions
- Webcam (required for proctored exams)
- Working computer speakers (required for proctored exams)

## Clearing Your Browser Cache

It is recommended that users periodically [clear their browser cache](#) to ensure they are viewing the most current course content. Completing this step often resolves login issues and problems viewing course materials.

## Proctored Exams

Courses with proctored exams will have an Examity link in the left-hand course navigation. This link will not appear until scheduling opens. The BU Virtual Assessment Administrator will notify you when it is time to schedule your exam. Details on Examity's technical requirements and how to schedule your exam are in the Proctored Exam Information module on the course homepage. The Assessment Administrator can be reached at [pexams@bu.edu](mailto:pexams@bu.edu). Examity support is available 24/7 via phone (855-392-6489), email ([support@examity.com](mailto:support@examity.com)), or 'live chat' when logged in to the Examity dashboard.



## Navigating Courses

While navigating through your courses it's important to note that all hyperlinks will open in a new browser window.

The Blackboard navigation tools—shown in the images below—allow you to show and hide both the Course Menu and the Table of Contents which can free up space when moving through weekly lecture material.

The Table of Contents may contain folders that open and close (+ and - signs) and may conceal some pages. To avoid missing content pages, you are advised to use the next- and previous-page buttons (and icons) in the top-right corner of the learning content.

Navigation tools for the Table of Contents are shown in the image below:

A screenshot of a course interface. At the top, there are three icons: a purple square with a white bar (Minimize), an orange square with a white square (Maximize), and a pink square with a white arrow pointing down (Move to the bottom). Below these is a grey header bar with the text "Table of Contents". Underneath the header are three small icons: a purple square with a white bar, an orange square with a white square, and a pink square with a white arrow pointing down. To the right of these icons is the text "Page 1 of 9" and a right-pointing arrow. Below this is a list of four items, each with a small icon to its left: 1. Welcome (highlighted in blue), 2. Student Orientation Cour, 3. Course Objectives, and 4. Setting Up Your Compute.

Clicking the space between the Course Menu and the Table of Contents allows you to show or hide the Course Menu on the left:

A screenshot of a course interface. On the left is a dark grey sidebar with the title "DE Student Orientation (2020 Spring 2)" and a list of links: Home Page, Announcements, Assessments, Assignments, Calendar, Class Discussion, External Email, and Internal Messages. To the right of the sidebar is a light grey content area with a header "Table of Contents". At the top of the content area are three small icons: a purple square with a white bar, an orange square with a white square, and a pink square with a white arrow pointing down. To the right of these icons is the text "Page 1 of 9" and a right-pointing arrow. Below this is a list of nine items, each with a small icon to its left: 1. Welcome (highlighted in blue), 2. Student Orientation Cou, 3. Course Objectives, 4. Setting Up Your Comput, 5. Blackboard App for Onli, 6. Disability Services, 7. Netiquette, 8. Registration Information, and 9. Technical Support. A yellow box highlights the text "Hide Course Menu" located above the table of contents list.

