

# CSE 101 Computers A General Introduction

Spring 2019

## Course Description

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Course critically examines popular concepts of information age computing, including: smart devices, societal implications, history, hardware function, sensors, networks, problem solving, and software concepts. Internet technologies such as Web 2.0, rich internet applications, responsible use of social networking, and cloud computing are examined. Privacy and security are an underpinning across all topics. Students will gain practical, lab-based experience with spreadsheets, database systems, HTML design, and various operating systems, including Windows, Mac OS X, Linux and Android.

## Learning Outcomes

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Students will become aware with how computing is part of their everyday life with considerations of the ethics that factor in. Practical experience will provide students with familiarity with creation of word documents, spreadsheets, presentations, databases and webpages. The knowledge to compute safely will be gained by hands on activities. Student will also improve computer literacy with concepts on computer hardware and operating systems discussed.

## Course Prerequisites

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None

## Textbook

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Required:

University at Buffalo CSE 101 Winikus Spring 2019: Computing Technology for All, it is a \$58 subscription.

Instructions to get the book: (use of your buffalo.edu email address is required)

1. Sign up at zyBooks.com
2. Enter zyBook code: [BUFFALOCSE101WinikusSpring2019](#)
3. Click *Subscribe*

Note: You must sign up with your UB email address and put your Person Number in the field where it asks for your student ID. This is necessary since you have assignments that will come from this book.

## **Course Requirements**

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Not enrolled as a computer science or computer engineering major. Successful completion of this course requires students to attend lectures and labs along with completing assignments, exams, labs and quizzes with a high level of quality and care.

## **Schedule**

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Lecture: 4 - 4:50 pm, MWF, NSC 228

Recitations:

A1: 11am - 1:50pm, T, Capen 201A

A2: 8am - 10:50am, R, Baldy 206

## **Attendance**

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Lectures:

If you do not attend lecture you risk missing important content and information, however, there will be no enforcement of attendance other than when exams and quizzes are scheduled. In lecture quizzes may not be announced ahead of time. If you do not show up for an exam or quiz without previous arrangements barring extreme unforeseeable circumstances, then you will not be allowed to make up the exam or quiz.

Labs:

When labs are assigned it is mandatory that you attend your assigned section to perform your lab. If you must miss your section, speak with your TA as soon as possible. Sections are full so attending other sections is not allowed without express permission. You are to use this time to work on your lab assignments however you may need to spend additional time outside of the lab to complete the work. You may also use this time to work on other course related assignments.

## **Instructor Contact Information**

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Dr. Jennifer Winikus

Email: [jwinikus@buffalo.edu](mailto:jwinikus@buffalo.edu)

Website: [www.cse.buffalo.edu/~jwinikus](http://www.cse.buffalo.edu/~jwinikus)

Office Phone: 716-645-4757

Office: Davis 351

## **Office Hours**

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Unless instructed that they have changed.

Fridays 2-3pm, Davis 351

By appointment, email to arrange.

TAs will provide additional office hours which will be announced.

## **Academic Content**

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Topics will tentatively include (but are not limited to):

- Word processing
- Databases
- Spreadsheets
- Computer History
- Safe Computing
- Computer Hardware
- Webpage Development
- Operator System Basics

## **Grading Policies**

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Your grade will be comprised of:

12.5 % Exam 1

12.5 % Exam 2

20 % Final Exam

10 % Homework, Quizzes, and other assignments

5 % Zybooks Participation

40 % Laboratory Assignments

1 % extra credit will be available by completing one the extra credit options provided.

Other extra credit opportunities may be made available.

Your final score for the course will be converted into a letter grade as follows:

- A: 100–94
- A-: 93–90
- B+: 89–87
- B: 86–84
- B-: 83–80
- C+: 79–77
- C: 76–74
- C-: 73–70

- D+: 69–67
- D: 66–60
- F: 59–0

The instructor reserves the right to curve grades if appropriate and as they choose. Participation and attendance may be considered in the final grade assignment, with up to a 2% impact (which can be positive or negative).

\*If you score less than 60% for the lab score for the term, you will fail the course independent of overall grade.

**Incompletes (I/IU):** The course follows the university undergraduate [incomplete](#) policy. A grade of incomplete (“I”) indicates that additional coursework is required to fulfill the requirements of a given course. Students may only be given an “I” grade if they have a passing average in coursework that has been completed and have well-defined parameters to complete the course requirements that could result in a grade better than the default grade. An “I” grade may not be assigned to a student who did not attend the course.

Prior to the end of the semester, students must initiate the request for an “I” grade and receive the instructor’s approval. Assignment of an “I” grade is at the discretion of the instructor.

The instructor must specify a default letter grade at the time the “I” grade is submitted. A default grade is the letter grade the student will receive if no additional coursework is completed and/or a grade change form is not filed by the instructor. “I” grades must be completed within 12 months – see the Incomplete Grade Policy for the schedule. Individual instructors may set shorter time limits for removing an incomplete than the 12-month time limit. Upon assigning an “I” grade, the instructor shall provide the student specification, in writing or by electronic mail, of the requirements to be fulfilled, and shall file a copy with the appropriate departmental office. Students must not re-register for courses for which they have received an “I” grade

## Collaboration Policies

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Unless explicitly told, all work is to be done independently with only the assistance of TAs and the instructor. You may discuss the general concepts of assignments and what the question asks for with other students but you may not discuss answers.

Unauthorized collaboration will result in an “F” in the course as a violation in academic integrity.

## Exam Policy

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There will be 3 exams.

- The first and second exams will have three parts: practice exam, traditional exam, and correction session.
  - Practice exam: is part of your assignment grade and is done in class the lecture prior to the traditional exam.
  - Traditional exam will be in lecture, all accommodation requests must be made a minimum of 1 week ahead of time.
  - Correction session will be in lecture, and is optional. All accommodation requests for the correction session must be made a minimum of a week ahead of time. If you have accessibility resources accommodations for exams, please consult the instructor concerning what would be appropriate for your situation for the corrections session.
- The final exam will have two parts: the practice exam and the traditional exam.
  - Practice exam is part of your assignment grade and is done in class on the last class of the term.
  - Traditional part of the exam is scheduled by the registrar during finals week.

You can not borrow pens or pencils during the exam. During the exam there is to be no talking, looking at your phone, or any technology, doing so may result in an automatic “F” on the exam; and potentially in the course.

Any accommodations must be made in advanced barring extraordinary circumstances.

## **Due Dates**

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All submissions will be made on UBLearns.

Late work:

No work will be accepted after midnight on Friday of the last week of classes barring extraordinary circumstances. This includes regrade requests.

All assignments have a time and a day due date, you may submit up to 24 hours late at no penalty. After that no late work will be accepted barring extraordinary circumstances and that no solutions have been released. In that case a late penalty may be applied. If a regrade is desired, you have 1 week from the time the grade is released to request a regrade. Corrections are not allowed on homework and lab assignments.

## **Email Policy**

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Students are responsible for email sent to their official University at Buffalo email address. Communication will not be done with non-university email addresses. A level of professionalism is expected with all communications. Make sure that you include “CSE101” in the subject line to

support a timely response. Responses may be delayed outside of standard business hours and at other times you will be informed of.

## **Accessibility Resources**

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If you have any disability which requires reasonable accommodations to enable you to participate in this course, please contact the [Office of Accessibility Resources](#), 60 Capen Hall, 645-2608, and also the instructor of this course. The office will provide you with information and review appropriate arrangements for reasonable accommodations.

## **University Policies**

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You are expected to adhere to all university policies, including those listed below and not listed.

Academic Integrity Policy:

<http://undergrad-catalog.buffalo.edu/policies/course/integrity.html>

University Policy on Accommodations:

<https://policy.business.buffalo.edu/Policy%20Library/Reasonable%20Accommodation.pdf>

The Office of Equity, Diversity and Inclusion provides many resources including the following policies to be followed:

Discrimination and Harassment:

<http://www.buffalo.edu/administrative-services/policy1/ub-policy-lib/discrimination-harassment.html>

Reasonable Accommodation:

<http://www.buffalo.edu/administrative-services/policy1/ub-policy-lib/reasonable-accommodation.html>

Religious Accommodation and Expression:

<http://www.buffalo.edu/administrative-services/policy1/ub-policy-lib/religious-accommodation-expression.html>

Departmental Academic Integrity Policy

<https://engineering.buffalo.edu/computer-science-engineering/undergraduate/resources-for-current-students/academic-integrity-students.html>

Student Code of Conduct

<http://www.buffalo.edu/content/dam/www/studentlife/units/uls/judicial-affairs/ub-student-code-of-conduct.pdf>

Classroom Behavior Expectations

<https://catalog.buffalo.edu/policies/obstruction.html>

## **Departmental Statement on Academic Integrity in Coding Assignments and Projects**

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All academic work must be your own. Plagiarism, defined as copying or receiving materials from a source or sources and submitting this material as one's own without acknowledging the particular debts to the source (quotations, paraphrases, basic ideas), or otherwise representing the work of another as one's own, is never allowed. Collaboration, usually evidenced by unjustifiable similarity, is never permitted in individual assignments. Any submitted academic work may be subject to screening by software programs designed to detect evidence of plagiarism or collaboration.

It is your responsibility to maintain the security of your computer accounts and your written work. Do not share passwords with anyone, nor write your password down where it may be seen by others. Do not change permissions to allow others to read your course directories and files. Do not walk away from a workstation without logging out. These are your responsibilities. In groups that collaborate inappropriately, it may be impossible to determine who has offered work to others in the group, who has received work, and who may have inadvertently made their work available to the others by failure to maintain adequate personal security. In such cases, all will be held equally liable.

## **Departmental Policy on Violations of Academic Integrity**

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The CSE Department has a zero-tolerance policy for AI violation.

All AI violation cases will be reported to the department, school and university, and recorded.

Even the 1st offense will receive "F" for the course, unless the instructor deems it appropriate to reduce the penalty.

Subsequent violation of AI in any form and in any other course will automatically result in a "F" grade, with no exception.

## Tentative Schedule

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The schedule and content is subject to change.

<b>Week</b>	<b>Date</b>	<b>Material</b>
<b>1</b>	<b>M- 1/28</b>	<b>Introduction</b>
<b>1</b>	<b>W- 1/30</b>	<b>Critical Skills</b>
<b>1</b>	<b>F- 2/1</b>	<b>Computing in Everyday Life</b>
<b>2</b>	<b>M- 2/4</b>	
<b>2</b>	<b>W- 2/6</b>	<b>Word Processing</b>
<b>2</b>	<b>F- 2/8</b>	<b>TBD</b>
<b>3</b>	<b>M- 2/11</b>	<b>History of Computing</b>
<b>3</b>	<b>W- 2/13</b>	<b>Social and Ethical Issues</b>
<b>3</b>	<b>F- 2/15</b>	
<b>4</b>	<b>M- 2/18</b>	<b>Privacy</b>
<b>4</b>	<b>W- 2/20</b>	<b>Privacy/Security</b>
<b>4</b>	<b>F- 2/22</b>	<b>Security</b>
<b>5</b>	<b>M- 2/25</b>	<b>Tentative Exam 1 Review</b>
<b>5</b>	<b>W- 2/27</b>	<b>Tentative Exam 1</b>
<b>5</b>	<b>F- 3/1</b>	<b>Exam 1 corrections</b>
<b>6</b>	<b>M- 3/4</b>	<b>Spreadsheets</b>
<b>6</b>	<b>W- 3/6</b>	
<b>6</b>	<b>F- 3/8</b>	<b>Other Applications</b>
<b>7</b>	<b>M- 3/11</b>	<b>Presentations</b>
<b>7</b>	<b>W- 3/13</b>	<b>How Computers Think - Number systems</b>
<b>7</b>	<b>F- 3/15</b>	



<b>8</b>	<b>M- 3/18</b>	<b>No Class- Spring Break</b>
<b>8</b>	<b>W- 3/20</b>	<b>No Class- Spring Break</b>
<b>8</b>	<b>F- 3/22</b>	<b>No Class- Spring Break</b>
<b>9</b>	<b>M- 3/25</b>	<b>Databases</b>
<b>9</b>	<b>W- 3/27</b>	
<b>9</b>	<b>F- 3/29</b>	
<b>10</b>	<b>M- 4/1</b>	<b>Hardware</b>
<b>10</b>	<b>W- 4/3</b>	<b>Embedded Systems</b>
<b>10</b>	<b>F- 4/5</b>	<b>Peripherals</b>
<b>11</b>	<b>M- 4/8</b>	<b>Webpages</b>
<b>11</b>	<b>W- 4/10</b>	
<b>11</b>	<b>F- 4/12</b>	<b>TBD</b>
<b>12</b>	<b>M- 4/15</b>	<b>Exam 2 review</b>
<b>12</b>	<b>W- 4/17</b>	<b>Exam 2 tentative</b>
<b>12</b>	<b>F-4/19</b>	<b>Exam 2 Corrections Session</b>
<b>13</b>	<b>M- 4/22</b>	<b>Internet</b>
<b>13</b>	<b>W- 4/24</b>	<b>The Cloud</b>
<b>13</b>	<b>F- 4/26</b>	<b>Networks</b>
<b>14</b>	<b>M- 4/29</b>	
<b>14</b>	<b>W- 5/1</b>	
<b>14</b>	<b>F- 5/3</b>	<b>Operating Systems</b>
<b>15</b>	<b>M- 5/6</b>	
<b>15</b>	<b>W- 5/8</b>	<b>History of Computing Wrap Up and Oregon Trail Day</b>
<b>15</b>	<b>F- 5/10</b>	<b>Last Day of Class Final Exam Review</b>

**Final exam is Friday, May 17th, 3:30-6:30pm in NSC 228.**

**Tentative Plan for Assignments:**

You are anticipated to have 10 homework assignments, 2 quizzes, 2 in class activities, 12 labs, a lab practical, and three practice exam activities. This is subject to change and assignments may be added or removed.

**Important Dates**

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**First Day of Classes:** Monday, January 28

**Last Day to Drop/Add:** Monday, February 4

**Last Day to Resign:** Friday, April 19

**Last Day of Classes:** Friday, May 10

***\*All content in the syllabus is subject to change based on the needs of the class and the discretion of the instructor\****