

# CS 2033A – Multimedia and Communications II

## Fall 2023

### Course Outline

## 1. Course Information

### Course Information

This course is blended which means it is a combination of online materials and in-person sessions. Lectures are pre-recorded videos that can be watched at any time during the week. We will hold bi-weekly in-class sessions in which we will go through examples, demos, and review questions that help you to learn the course material. While these in-class sessions are not mandatory, they are recommended as you will get to watch and follow along with hands-on activities that will prepare you for the assignments and help you study for the quizzes and final exam. There are also 9 mandatory weekly labs that give you practical experience with the hands-on components of the course.

Lectures: Pre-recorded videos that you can watch at any time; you are expected to watch them within the week for which they are specified so that you are prepared for the in-class session, lab, quiz, etc.

In-Class Sessions: Thursdays (every 2 weeks) from 10:30am to 12:30pm in WSC-55.

Labs (all take place in NCB-105):

- Section 002 Wednesdays 9:30am to 11:30am
- Section 003 Mondays 12:30pm to 2:30pm
- Section 004 Fridays 9:30am to 11:30am
- Section 005 Fridays 11:30am to 1:30pm
- Section 006 Mondays 6:30pm to 8:30pm

### Prerequisite:

CS 1033 A/B

Unless you have either the prerequisite for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

## 2. Instructor Information

Name: Bryan Sarlo

Email: [bsarlo@uwo.ca](mailto:bsarlo@uwo.ca)

Office: MC 361

Office Hours: Mondays 2-4pm held in-person (MC 361) unless otherwise stated on OWL

Students must use their Western (@uwo.ca) email addresses when contacting their instructors. Please include the course code (CS 2033) in the subject line or the body of your email.

### 3. Course Syllabus, Schedule, Delivery Mode

The topics of this course are similar to some of those introduced in CS 1033, like photo editing and website development, but they are more technical and advanced in CS 2033. The first two weeks cover advanced photo editing techniques including selections, masks, re-touching photos, colour channels, and adding other effects to images. Then we go into website development and related topics for the remainder of the term. We begin the website development by teaching the basics of HTML, then adding CSS, and then JavaScript. Near the end of the term, we discuss other web libraries and platforms like jQuery, Bootstrap, WordPress, and more!

Upon completion of this course, you will be able to:

- Manipulate images in photo editing software using advanced techniques
- Construct a website purely by coding it with HTML and CSS
- Validate and modify web forms using JavaScript for client-side processing
- Modernize websites using various CSS- and JavaScript-based technologies
- Identify several web libraries and online platforms that can assist in web development

#### Lecture Video Schedule

1. Photo Editing (I)	week of September 11
2. Photo Editing (II)	week of September 18
3. HTML	week of September 25
4. CSS	week of October 2
5. Advanced CSS	week of October 9
6. JavaScript	week of October 16
7. Form Validation and Modification	week of October 23
8. Web Libraries	week of November 6
9. Modern Website Features	week of November 13
10. CMS and E-Commerce	week of November 20

#### In-Class Session Schedule

1. Course Overview	September 7 at 10:30am in WSC-55
2. Affinity Photo	September 21 at 10:30am in WSC-55
3. HTML and CSS	October 5 at 10:30am in WSC-55
4. CSS and JavaScript	October 19 at 10:30am in WSC-55
5. Form Validation	November 9 at 10:30am in WSC-55
6. Modern Website Features	November 23 at 10:30am in WSC-55

#### Key Sessional Dates

Classes begin: September 7, 2023

Fall Reading Week: October 30 – November 3, 2023

Classes end: December 8, 2023

Exam period: December 10 – 22, 2023

## Contingency plan

Although the intent is for this course to be delivered in person, should any university-declared emergency require some or all of the course to be delivered online, either synchronously or asynchronously, the course will adapt accordingly. The grading scheme will **not** change. Any assessments affected will be conducted online as determined by the course instructor.

## 4. Course Materials

There is no textbook for this course.

Students are required to have a relatively modern computer and reliable Internet connection.

Required Software:

- Affinity Photo\*
- Brackets (or a similar plain-text editor) [free]
- WinSCP or FileZilla or Fugu [free]

*\* You can purchase Affinity Photo if you don't already own it (from CS 1033) through the PurplePay website but note that it will not be sent out until October **OR** purchase it directly from the official Serif website to get it immediately but it costs more that way **OR** get a free 7-day trial through the official Serif website **OR** use our computer labs when they are not busy (we now have it installed in MC 240 which isn't being used for our scheduled labs).*

Students are responsible for checking the course OWL site (<http://owl.uwo.ca>) on a regular basis for news and updates. This is the primary method by which information will be disseminated to all students in the class. The course site on OWL is labelled as "COMPSCI 2033A 200 FW23"

If students need assistance with the course OWL site, they can seek support on the OWL Help page. Alternatively, they can contact the Western Technology Services Helpdesk. They can be contacted by phone at 519-661-3800 or ext. 83800.

## 5. Methods of Evaluation

The overall course grade will be calculated as listed below:

Labs (9)	8%	(1% each; the lowest one is dropped)
Quizzes (3)	12%	(4% each)
Assignments		
Graphic	20%	
Website	20%	
Final Exam	40%	

## Labs

There are 9 weekly labs in this course. They will begin the week of September 18-22 and run until the week of November 20-24.

You must attend the lab section in which you are registered. You are **not** allowed to attend a different section.

The lowest lab will be dropped at the end of the term, so if you have to miss a lab, it will not affect your mark unless you have already missed one previously. If you need to miss more than one lab due to an ongoing illness or other valid reason, you should contact your Academic Counsellor (from your home department) to request an academic consideration and then follow up with the instructor. If confirmed, the weight of the lab will be shifted to the final exam.

Note that if you miss any labs (including the dropped one), you are still encouraged to go through the lab material on your own time so that you learn and practice the skills involved in those labs. Doing all the labs will help immensely with completing the assignments. The final exam also includes some lab-related questions so it is important that you go through all the labs, even if it does not affect your mark.

Labs are to be done individually, not as a collaboration. If you need help, you are encouraged to ask the TAs for help.

You must sign the TA's attendance sheet and show them your completed lab work before leaving the room. If you forget to show them your work, you will not get the mark.

You **cannot** show up to the lab room with your work already completed from home. You **must** do the work during your scheduled lab time. Doing this will result in a mark of 0 for the lab.

### **Lab Schedule**

1. Affinity Photo	week of September 18
2. Affinity Photo	week of September 25*
3. HTML	week of October 2
4. CSS	week of October 9**
5. CSS Layouts	week of October 16
6. JavaScript	week of October 23
7. JavaScript and Form Validation	week of November 6
8. jQuery and Bootstrap	week of November 13
9. Modern Website Features	week of November 20

*\* September 29 is a non-instructional day (due to the National Day for Truth and Reconciliation the next day) at the university. Students in Friday labs will be contacted about doing this lab (Lab 2 only) from home. All non-Friday labs will run normally that week.*

*\*\* October 9 is the Thanksgiving holiday so the university will be closed. Students in Monday labs will be contacted about doing this lab (Lab 4 only) from home. All non-Monday labs will run normally that week.*

**Other than these two holiday-based exceptions, marks will not be given for any labs completed at home under any circumstances.**

## Quizzes

There are three quizzes each worth 4% and each with 20 questions. The quizzes require some out-of-the-box thinking and applying material in ways you haven't necessarily seen directly in lecture or lab. You have 30 minutes to complete a quiz when you start it but it must be within the 10:30am to 12:30pm timeslot on the given dates (i.e. if you start a quiz at 12:25pm, you will only get 5 minutes and then it will close). **There will not be makeup quizzes nor will they be re-opened or extended under ANY circumstances.** Students registered with Accessible Education for extra time on tests and quizzes will be given the extra time but the quiz still must be completed between 10:30am and 12:30pm on those days.

The quizzes are online on OWL so you can do them from anywhere. They are open during the scheduled lecture time but you can do them from home, as they are all held on weeks when we are not meeting in person.

### Quiz Schedule

1. September 28 covering the topics:
  - [1] Photo Editing (I)
  - [2] Photo Editing (II)
2. October 26 covering the topics:
  - [3] HTML
  - [4] CSS
  - [5] Advanced CSS
3. November 30 covering the topics:
  - [6] JavaScript
  - [7] Form Validation and Modification
  - [8] Web Libraries
  - [9] Modern Website Features

Note that [10] CMS and E-Commerce is not covered on any quiz (but will be covered on the final exam). Also note that some previous topics may be indirectly used in later quiz questions (for example, in Quiz 3, there could be a question that requires you to know some HTML or CSS while asking a primarily JavaScript question).

## Assignments

There are 2 assignments in this course. The first is a graphic assignment which requires you to create some Affinity Photo files and a branding document. The other assignment is a website you have to create from scratch by writing HTML, CSS, and JavaScript code. Both assignments give you a lot of freedom in coming up with content and design, but there are also a lot of requirements that have to be followed to get a good grade.

Graphic Assignment due Friday, October 20, 2023

Website Assignment due Friday, December 8, 2023

Both assignments will be due at 11:55pm unless otherwise stated. They will require you to upload one or more files to your GAUL server space and then submit a link and/or other information on OWL. Email assignment submissions will not be accepted.

Both assignments are to be done individually, not as a collaboration. Do not share your work or ask someone else to do any portion of your work. Do not use ChatGPT or any AI system to do **any** portion of the assignment for you, including AI-generated graphics. These are all forms of academic dishonesty and will be treated and penalized as such.

### **Late Penalties and Coupons**

Assignments that are late are subject to a 10% penalty per day, up to 3 days and assignments will not be accepted after 3 days late (unless you have approval from Academic Counselling for a longer extension due to an illness or other valid reason). However, you will be given 2 late coupons that will be automatically applied when an assignment is submitted late, until they have run out. Each coupon waives the penalty for one late day. For example, if you submit the first assignment 2 days late, you will not receive any late penalties but no coupons will be left for the other assignment. If you submit the first assignment one day late, you will have one coupon remaining to use for the second assignment.

The assignments are being posted well in advance of the due dates so you are given a lot of time to work on them. You should not leave them to the last minute and rush to finish them. Please begin early and give yourself lots of time to finish them and submit them **before** the due dates to avoid panic from last minute issues that may arise.

### **Final Exam**

The final exam will be scheduled during the December exam period (Dec. 10 to 22) by the University. We will likely be told the exact date, time, and location sometime in November. The exam will be 2 hours in length. The format will be mostly multiple choice but may also include some short written answer questions. It will be closed book and no electronic devices (i.e. phones, tablets, and calculators) will be allowed. More information will be posted on OWL closer to the exam period in December.

### **Important Marking Conditions**

To be eligible to pass the course, you must:

- obtain at least 50% on the final exam, and
- obtain an average of at least 50% on the two assignments

If either of these requirements is not met, your mark will be capped at 45% (even if your calculated grade comes out to a higher grade, it will be reduced to 45%).

## **6. Student Absences**

If you are unable to meet a course requirement due to illness or other serious circumstances, please follow the procedures below.

### **Assessments worth less than 10% of the overall course grade:**

You can miss one lab without any penalty since we drop the lowest lab. If you miss multiple labs due to an ongoing illness or other valid reason, you should contact your academic counsellor to request academic considerations for the other labs you miss and then contact your course instructor about it. If confirmed, the weight of those labs will be shifted to the final exam.

If you miss any quizzes due to an ongoing illness or other valid reason, you should contact your academic counsellor to request academic considerations and then contact your course instructor about it. If confirmed, the weight of those quizzes will be shifted to the final exam.

For assignments, you have 2 late coupons that will be applied automatically when assignments are submitted late to waive the late penalty for one day each. If you require additional time with assignments with a valid reason, you should contact your academic counsellor to request academic considerations for the assignment that is late and then contact your course instructor about it to arrange an extension.

### **Assessments worth 10% or more of the overall course grade:**

For work totalling 10% or more of the final course grade, you must provide valid medical or supporting documentation to the Academic Counselling Office of your Faculty of Registration as soon as possible. For further information, please consult the University's medical illness policy at

[https://uwo.ca/univsec/pdf/academic\\_policies/appeals/academic\\_consideration.pdf](https://uwo.ca/univsec/pdf/academic_policies/appeals/academic_consideration.pdf)

The Student Medical Certificate is available at

[https://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/medicalform.pdf](https://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf)

### **Absences from Final Examinations**

If you miss the Final Exam, please contact the Academic Counselling office of your Faculty of Registration as soon as you are able to do so. They will assess your eligibility to write the Special Examination (the name given by the University to a makeup Final Exam).

You may also be eligible to write the Special Exam if you are in a "Multiple Exam Situation" (e.g., more than 2 exams in 23-hour period, more than 3 exams in a 47-hour period).

If a student fails to write a scheduled Special Examination, the date of the next Special Examination (if granted) normally will be the scheduled date for the final exam the next time this course is offered. The maximum course load for that term will be reduced by the credit of the course(s) for which the final examination has been deferred. See the Academic Calendar for details (under [Special Examinations](#)).

**Note:** missed work can *only* be excused through one of the mechanisms above. Being asked not to attend an in-person course requirement due to potential COVID-19 symptoms is **not** sufficient on its own.

## 6. Accommodation and Accessibility

### Religious Accommodation

When a course requirement conflicts with a religious holiday that requires an absence from the University or prohibits certain activities, students should request accommodation for their absence in writing at least two weeks prior to the holiday to the course instructor and/or the Academic Counselling office of their Faculty of Registration. Please consult University's list of recognized religious holidays (updated annually) at

<https://multiculturalcalendar.com/ecal/index.php?s=c-univwo>.

### Accommodation Policies

Students with disabilities are encouraged to contact Accessible Education, which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The policy on Academic Accommodation for Students with Disabilities can be found at:

[https://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/Academic\\_Accommodation\\_disabilities.pdf](https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic_Accommodation_disabilities.pdf).

## 7. Academic Policies

The website for Registrarial Services is <http://www.registrar.uwo.ca>.

In accordance with policy,

[https://www.uwo.ca/univsec/pdf/policies\\_procedures/section1/mapp113.pdf](https://www.uwo.ca/univsec/pdf/policies_procedures/section1/mapp113.pdf),

the centrally administered e-mail account provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at their official university address is attended to in a timely manner.

**Scholastic offences** are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:

[http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/scholastic\\_discipline\\_undergrad.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf).

Computer-marked multiple-choice tests and exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

## 8. Support Services

Please visit the Science & Basic Medical Sciences Academic Counselling webpage for information on adding/dropping courses, academic considerations for absences, appeals, exam conflicts, and many other academic related matters: <https://www.uwo.ca/sci/counselling/>.

Students who are in emotional/mental distress should refer to Mental Health@Western (<https://uwo.ca/health/>) for a complete list of options about how to obtain help.



Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts at

[https://www.uwo.ca/health/student\\_support/survivor\\_support/get-help.html](https://www.uwo.ca/health/student_support/survivor_support/get-help.html).

To connect with a case manager or set up an appointment, please contact [support@uwo.ca](mailto:support@uwo.ca).

Learning-skills counsellors at the Student Development Centre (<https://learning.uwo.ca>) are ready to help you improve your learning skills. They offer presentations on strategies for improving time management, multiple-choice exam preparation/writing, textbook reading, and more. Individual support is offered throughout the Fall/Winter terms in the drop-in Learning Help Centre, and year-round through individual counselling.

Western University is committed to a thriving campus as we deliver our courses in the mixed model of both virtual and face-to-face formats. We encourage you to check out the Digital Student Experience website to manage your academics and well-being: <https://www.uwo.ca/se/digital/>.

Additional student-run support services are offered by the USC, <https://westernusc.ca/services/>.