

Course Information

Instructor Dave Ostapchuk
 Email instructor@digitalelectronics.ca
 Website www.digitalelectronics.ca
 Lectures Tue. & Thu., 10:00 am – 11:15 am
 Laboratories Fri., 2:30 pm – 5:00 pm
 Office hours Wed., 12:30 pm – 1:30 pm

Course Format

Online-synchronous lectures via Zoom

- Will not be recorded
- Invites will be sent to your UWinnipeg email

In-person labs in room 2L14

Topics to be Covered

- Circuit fundamentals
- Circuit applications
- Digital logic
- Microcontroller fundamentals
- Arduino platform
- Programming concepts
- Digital input
- Digital output
- Analog input
- Sensors
- Servo motors
- State machines

Not all topics will necessarily be covered

Final Grades

The guidelines for conversion from numerical (percentage) grades to letter grades are as follows:

A+	95% – 100%
A	87% – 94%
A–	80% – 86%
B+	74% – 79%
B	67% – 73%
C+	61% – 66%
C	53% – 60%
D	50% – 52%
F	0% – 49%

Note that the above are guidelines and that final grades shall be approved by the Department Review Committee and may be subject to change

Important Dates

11 Jan. 2022 First lecture
 21 Jan. 2022 First lab
 tbd Feb. 2022 Midterm test
 22 Feb. 2022 No lecture (reading week)
 24 Feb. 2022 No lecture (reading week)
 25 Feb. 2022 No lab (reading week)
 16 Mar. 2022 Final day to withdraw without academic penalty
 tbd Apr. 2022 Last lab
 tbd Apr. 2022 Last lecture
 tbd Apr. 2022 Final exam

Course Material

There is no required textbook for this course

Required hardware

- Digital Electronics Course Pack

Evaluation Criteria

Your final grade will be composed of the following components:

30% Assignments

- Approximately one every two weeks
- Assignments must be submitted by email prior to the indicated due date
- Late submissions will not be accepted

30% Laboratories

- Approximately one per week
- Attendance mandatory

10% Formal lab report

- Must be typed
- Demonstrate technical writing competency

10% Midterm test

- High speed Internet may be required
- A webcam may be required
- Calculators are permitted
- No photo-identification required
- Full details to be provided prior to test

20% Final exam

- High speed Internet may be required
- A webcam may be required
- Calculators are permitted
- No photo-identification required
- Full details to be provided prior to exam

Academic Integrity

You are expected to take academic integrity very seriously and be mindful of your own activities and the requests/offers you may receive from others. In addition to the guidelines in the Academic Calendar ([Regulations and Policies, Subsection 8a](#)), for all assessment items in this course, the following are considered cheating, plagiarism, or academic misconduct:

- Copying from another student's work and submitting it as your own.
- Consulting or copying from any unauthorized sources, including, but not limited to: the Internet; online calculators and graphing tools; assignments or tests/exams from previous years or from other courses; solutions provided by a third party (purchased or otherwise).
- Asking questions from another student or any unauthorized person during the tests and exams.
- Using any unauthorized sources during the tests and exams.
- Soliciting and obtaining solutions to the assignments, tests, and exams via any means of communication (e.g., email, text, phone call, social media chats, etc.).
- Providing test or exam questions and/or solutions to another student, uploading them to a filesharing website, or otherwise sharing them outside the course.

It is your responsibility to know the policies and guidelines, and to be aware of the academic misconduct procedures. Anybody involved in the process could be charged with academic misconduct. For more information, please see the Academic Calendar, [Regulations and Policies, Subsection 8a](#).

University of Winnipeg Regulations and Policies

- Course Outline changes
 - A permitted or necessary change in mode of delivery may require adjustments to important aspects of course outlines, like class schedule and the number, nature, and weighting of assignments and/or exams.
- Remote Learning
 - Students can find answers to frequently asked questions (FAQ) related to remote learning here: <http://www.uwinnipeg.ca/covid-19/remote-learning-faq.html>
- COVID-19
 - Students can find answers to frequently asked questions (FAQ) related to University Services and updates during the COVID-19 pandemic here: <http://www.uwinnipeg.ca/covid-19/index.html>
- Winter term
 - The first day of class is Thursday, January 10, 2022.
 - Mid-term reading week is February 20, 2022 to February 26, 2022.
 - Last day of class to be determined.
 - Evaluation period is April 8, 2022 to April 22, 2022.
- Class cancellation
 - When it is necessary to cancel a class due to exceptional circumstances, every effort will be made to inform students via UWinnipeg email.
- Communication
 - Students have the responsibility to regularly check their UWinnipeg email addresses to ensure timely receipt of correspondence from the University and/or their course instructors.
- Voluntary Withdrawal
 - Please note that withdrawing before the voluntary withdrawal date does not necessarily result in a fee refund.
 - A minimum of 20% of the work on which the final grade is based will be evaluated and available to the students prior to the voluntary withdrawal date.
 - Students are encouraged to contact their instructor prior to withdrawing in case they can help in any way.
 - The voluntary withdrawal date is Wednesday, March 16, 2022.

- University closures
 - The dates the University is closed for holidays, irrespective of campus closure related to COVID-19 are: February 21, 2022 (Louis Riel Day); April 15, 2022 (Good Friday).
- Regulations, Policies, and Academic Integrity
 - Students are encouraged to familiarize themselves with the [Regulations and Policies](#) in the [University Academic Calendar](#). Particular attention should be given to subsections 8 (Student Discipline), 9 (Senate Appeals), and 10 (Grade Appeals).
 - Please note, in particular, the subsection of Student Discipline pertaining to plagiarism, cheating, and other forms of academic misconduct.
 - Even “unintentional” plagiarism, as described in the UW Library video tutorial “[Avoiding Plagiarism](#)” is a form of academic misconduct.
 - Similarly, uploading essays and other assignments to essay vendor or trader sites (filesharing sites that are known providers of essays for use by others who submit them to instructors as their own work) is a form of misconduct, as it involves “aiding and abetting” plagiarism.
 - The policies and procedures are available at the following links:
 - * [Academic Misconduct Policy](#)
 - * [Academic Misconduct Procedure](#)
- Respectful Working and Learning Environment Policy
 - Students are expected to conduct themselves in a respectful manner on campus and in the learning environment irrespective of platform being used. Behaviour, communications, or acts that are inconsistent with a number of UW policies such as:
 - * [Respectful Working and Learning Environment Policy](#)
 - * [Acceptable Use of Information Technology Policy](#)
 could be considered non-academic misconduct.
 - More detailed information can be found here:
 - * [Non-academic Misconduct Policy](#)
 - * [Non-academic Misconduct Procedures](#)
- Copyright and Intellectual Property
 - Course materials are the property of the instructor who developed them. Examples of such materials are course outlines, assignment descriptions, lectures notes, test questions, and presentation slides – irrespective of format. Students who upload these materials to filesharing sites, or in any other way share these materials with others outside the class without prior permission of the instructor/presenter, are in violation of copyright law and University policy.
 - Students must also seek prior permission of the instructor/presenter before, for example, photographing, recording, or taking screenshots of slides, presentations, lectures, and notes on the board (or computer). Students found to be in violation of an instructor’s intellectual property rights could face serious consequences pursuant to the Academic Misconduct or Non-academic Misconduct Policy.
- Privacy
 - Students should be reminded of their rights in relation to the collection of personal data by the University:
 - * [Student Privacy Notice](#)
 - * [Zoom Privacy Notice](#)
 - * [Zoom Test and Exam Proctoring](#)
- Religious holidays
 - Students may choose not to attend classes or write examinations on holy days of their religion, but they must notify their instructors at least two weeks in advance. Instructors will then provide opportunity for students to make up work examinations without penalty. A list of religious holidays can be found in the Undergraduate Academic Calendar.

Accessibility Services

Students with documented disabilities, temporary or chronic medical conditions, requiring academic accommodations for tests/exams (e.g., private space) or during lectures/laboratories (e.g., note-takers) are encouraged to contact Accessibility Services (AS) at 204-786-9771 or accessibilityservices@uwinnipeg.ca to discuss appropriate options.

- All information about a student's disability or medical condition remains confidential
- For more information about Accessibility Services see: <http://www.uwinnipeg.ca/accessibility>