

## COURSE OUTLINE

### MATH 101: Calculus II, Summer 2024, CRN: 30543 (A01)

#### Your Instructors

**Primary Instructor:** William (Tom) Thompson      **Email (without the 'n'):** wthompso@uvic.ca

*For assistance with content related to the course, please either use the Brightspace forums or attend office hours. For administrative questions (such as discussing grades) send your instructor an email.*

#### General Course Information

**Number of Units:** 1.5

**Pre-requisites:** One of the following.

- Math 100;
- Math 109; or
- Permission of the department.

#### Content of the Course

**Overview:** We cover the following topics

- **Integration:** Algebraic Techniques of Integration, Separable Differential Equations, Exponential Modeling, Integration by Parts, Trigonometric Integrals, Trigonometric Substitution, Partial Fractions, Improper Integrals, Volumes Using Cross Sections, Washers and Shells, Arc-Length.
- **Series:** Introduction to Sequences, Definition of Infinite Series, Convergence Tests, Power Series, Taylor and MacLaurin Series, Convergence of Taylor Series, Binomial Series, Applications of Taylor Series.
- **Coordinate Systems:** Complex Numbers, Parametric Equations, Polar Coordinates, Area Trapped by Polar Curves.

#### Class Meetings

##### Lecture

Section	Days	Time	Room
A01	MWTh	2:30 pm - 3:20 pm	Elliott 168

##### Tutorials

Section	Days	Time	Room
T01	T	12:30 pm - 1:20 pm	Clearihue A320
T02	T	1:30 pm - 2:20 pm	Clearihue A207
T03	T	2:30 pm - 3:20 pm	Clearihue A320

Attendance is mandatory and you must attend the section that you are registered in. Lectures will not be recorded. As such, it is your responsibility to catch up reviewing the material covered that day, going over the assigned practice problems and asking your instructor what has been missed.

### Course Materials and Online Resources

**Course Pack:** *Calculus II Course Pack*, by William (Tom) Thompson. This pack contains all the skeleton lecture notes. It will be posted on the Course Webpage and it is recommended that students have a method of writing on the document.

**Calculator:** *Sharp EL-510 RTB Calculator* and the Sharp EL-510R variants (older models) are the only approved model for use on exams. You may purchase one of these calculators from the bookstore for \$15.

**Course Webpage:** The webpage can be found on BrightSpace. All course announcements, including lecture notes, and instructions for tests will be posted there. There will also be a forum where you can converse with other students and the ask questions to either the instructor or other students. We expect you to check the site regularly.

**Textbook:** *Thomas' Calculus, Early Transcendentals 14th edition*, by Hass, Heil and Weir. You do not have to buy a physical copy of this textbook, there is a free online edition posted on the Course Webpage.

**WeBWorkK:** This is a required (free) tool which you will use to study the material and complete regular assignments and online assessments. Information to sign up will be posted on the Course Webpage.

**Crowdmark:** This is a (free) platform we will use for submitting tutorial problems and reviewing your tests. Information to sign up will be posted on Brightspace.

### Assessment Information

**WeBWorkK Assignments and Quizzes:** Almost every Sunday there is a weekly assignment and the follow up quiz due in WeBWorkK by the end of the day. The two assignments and the two quizzes that score the lowest will be dropped (non-submissions are counted as zero).

**Tutorials:** Almost every Thursday there will be an assigned question from tutorial due by the of the day. You will be instructed to upload your submission through Crowdmark. The two tutorials that score the lowest will be dropped (non-submissions are counted as zero).

**Midterms:** Two 50-minute midterms will take place in lecture on a scheduled Thursday. Exams are in-person.

**Final Exam:** The final exam is cumulative, and the final assessment that synthesizes all we have learned. *You must receive a grade of 40% on the final exam to pass the course.* Students are strongly advised not to make plans for travel or employment during the final examination period as special arrangements will not be made for examinations that conflict with such plans.



### Assessment Grading

Your final percentage grade will be computed according to the following scheme.

	Homework	Quizzes	Tutorials	Midterms	Final Exam
<b>Quantity</b>	x10	x10	x9	x2	x1
<b>Drops</b>	Lowest 2	Lowest 2	Lowest 2	None	None
<b>Frequency</b>	≈ Weekly	≈ Weekly	≈ Weekly	≈ Every 4 Weeks	End of Term
<b>Weight</b>	12% (1.5% each)	12% (1.5% each)	14% (2% each)	22% (11% each)	40%

Percentage scores will be converted to letter grades according to the university-wide standard table (Undergraduate: <https://www.uvic.ca/calendar/undergrad/index.php#/policy/S1AAgoGuV>). The Department of Mathematics and Statistics does not award 'E' grades or offer Supplemental Examinations in any of its courses.

### Missed Work and Remark Requests

**Tutorials and WeBWorK Assignments/Quizzes:** *No extensions or make-ups will be offered.* If you have a known conflict with the due date such as a religious observance, then it is expected you complete the homework early if possible. Excusals due to illness and emergency are covered by the two lowest scores being dropped.

**Midterms:** *No extensions or make-ups will be offered.* If you are unable to write a test for reasons such as a serious illness, accident, family affliction, or religious observation, then you must contact Tom within 7 days of the missed test and may be required to provide documentation. If you have an approved miss of a single test, the final exam will be worth 51%. If you miss both tests it is expected that you have a meeting with Tom to assess your progress in the course and options (which may be a request for a late withdrawal).

**Final Exam:** Off-schedule final examinations (i.e., deferred examinations) are given only in accordance with the university policy as outline in the calendar. If you are unable to write a final examination due to illness, accident or family affliction, please refer to the following webpage on how to proceed: <https://www.uvic.ca/calendar/future/undergrad/index.php#/policies> under Academic Concessions.

**Remark Requests:** For WeBWorK assessments (Assignments and Quizzes), the only remark requests are ones due to a technical error in accepting a correct answer (that meets the requested format and form). Notational errors, approximating answers instead of listing exact answers, etc, done by the student will not be regraded.

For midterms and tutorials, if you believe that your assessment has been incorrectly marked, you must write a short (at most one page) explanation discussing the specific error you believe was made and email it to Tom. This request must be submitted no later than 7 days after the assessment is returned to you. Requests such as "I just think this deserves more marks" will not be regraded.

For final exams, remark requests for final exams are done formally through the Registrars Office by filling out the form <https://www.uvic.ca/registrar/assets/docs/record-forms/grade-review.pdf> and paying a \$25 fee.

Course Schedule

Week of	Sections Covered	Notes
06/05/24	Course Outline, 2.1	
13/05/24	2.2, 2.3, 2.4	H1/Q1 Assigned, T1 Assigned
20/05/24	2.5	H2/Q2 Assigned, T2 Assigned
27/05/24	2.6, 2.7, 2.8	H3/Q3 Assigned, T3 Assigned
03/06/24	2.9, 2.10	Midterm 1
10/06/24	2.11, 3.1, 3.2	H4/Q4 Assigned, T4 Assigned
17/06/24	3.2 (cont.), 3.3, 3.4, 3.5	H5/Q5 Assigned, T5 Assigned
24/06/24	3.5 (cont.), 3.6, 3.7	H6/Q6 Assigned, T6 Assigned
01/07/24	3.7 (cont.), 3.8	H7/Q7 Assigned
08/08/24	3.9, 3.10	H8/Q8 Assigned, T7 Assigned
15/08/24	4.1	Midterm 2
22/08/24	4.2, 4.3, 4.4	H9/Q9 Assigned, T8 Assigned
29/08/24	4.5, 4.6	H10/Q10 Assigned, T9 Assigned

The above represent sections of the course pack, not the textbook. The above are only approximations of when sections are covered and the pace might be either quicker or slower than the above.

The following are important administrative dates:

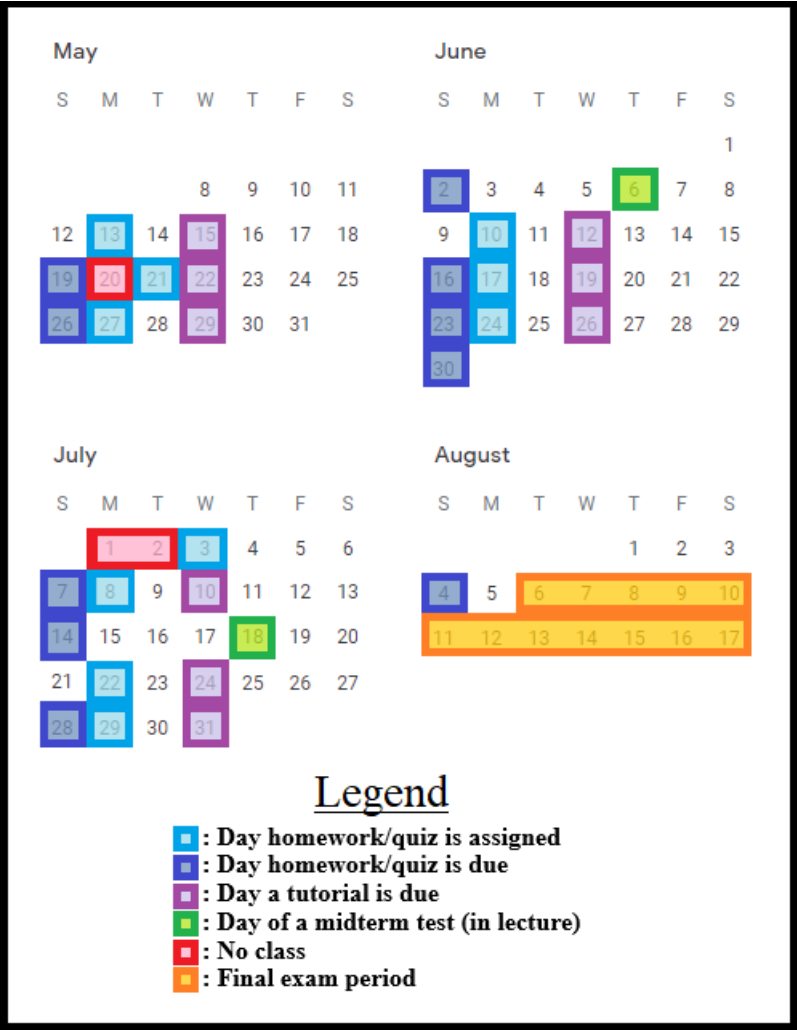
- Classes Begin: May 8
- Victoria Day: May 20 (University Closed)
- Course Add Deadline: May 23
- Fee Deadline: May 31
- Canada Day: July 1 (University Closed)
- Reading Break: July 1 - July 2
- Classes End: Aug 2
- British Columbia Day: Aug 5
- Final Exam Period: Aug 6 - Aug 17

Drop dates are provided by the following table:

100% Fee Reduction	50% Fee Reduction	Academic Drop No Reduction
May 20	June 9	July 3



Assessment Schedule



	H/Q1	H/Q2	H/Q3	H/Q4	H/Q5	H/Q6	H/Q7	H/Q8	H/Q9	H/Q10
Set	May 13	May 21	May 27	June 10	June 17	June 24	July 3	July 8	July 22	July 29
Due	May 19	May 26	June 2	June 16	June 23	June 30	July 7	July 14	July 28	Aug 4

	T1	T2	T3	T4	T5	T6	T7	T8	T9
Set	May 14	May 21	May 28	June 11	June 18	June 25	July 9	July 23	July 30
Due	May 15	May 22	May 29	June 12	June 19	June 26	July 10	July 24	July 31

	Midterm 1	Midterm 2
Date	June 6	July 18

Final Exam
To be announced at: <a href="https://www.uvic.ca/students/academics/exams-grades-and-transcripts/exam-schedule/index.php">https://www.uvic.ca/students/academics/exams-grades-and-transcripts/exam-schedule/index.php</a>

**Commitments, Policies, Practices, Integrity, and Expected Course Learning Outcomes**

The University of Victoria has a firm policy on Academic Integrity:

<https://www.uvic.ca/students/academics/academic-integrity/index.php>.

Policies and Practices of the Department of Mathematics and Statistics are provided by the following link:

<https://www.uvic.ca/science/math-statistics/assets/docs/undergraduate/ugpolicies.pdf>

Statements on the Code of Conduct are provided by the following link:

[https://www.uvic.ca/science/math-statistics/assets/docs/edi/code\\_of\\_conduct.pdf](https://www.uvic.ca/science/math-statistics/assets/docs/edi/code_of_conduct.pdf)

Information regarding the learning outcomes for Mathematics and Statistics courses are provided by the following link:

<https://www.uvic.ca/science/math-statistics/current-students/undergraduate/learning-outcomes/index.php>

The policies and information in the above links are deemed to be part of this outline. For further comments on University Statements and Policies see the Mathematics and Statistics Department handout (to be posted later on Brightspace).

**How To Get Help**

**Instructor Office Hours:** Your instructor will host office hours weekly. The times and location will be announced on the Course Page.

**Forums:** The Course Page will have a forum where you may ask questions to your classmates or instructor.

**The Math and Stats Assistant Center:** This center is staffed with talented Teaching Assistants who are happy to discuss 100- and 200-level mathematics and statistics concepts with you, whether you are struggling with a course or aiming for an A+! Please see <http://www.uvic.ca/msac> for more information.

**Math Club:** Social connections are as important now as ever! Consider joining Students in Undergraduate Mathematics and Statistics (SUMS) Please see <http://www.uvic.ca/science/math-statistics/current-students/undergraduate/sums/index.php> for more information.



**Other Student Groups and Resources****Indigenous Student Services (ISS):**

<https://www.uvic.ca/services/indigenous/students/index.php>

**Centre for Academic Communication (CAC):**

<https://www.uvic.ca/learningandteaching/cac/index.php>

**Learning Strategies (LSP):**

<https://onlineacademiccommunity.uvic.ca/LearnAnywhere/learning-strategies/>

**Community Engaged Learning (CEL):**

<https://www.uvic.ca/career-services/build-your-career/community-engaged-learning/index.php>

**Academic Concession Regulations:**

<https://www.uvic.ca/career-services/build-your-career/community-engaged-learning/index.php>

**Academic Concession and Accommodation:**

<https://www.uvic.ca/students/academics/academic-concessions-accommodations/index.php>

**Student Wellness:**

<https://www.uvic.ca/student-wellness/>

**Ombudsperson:**

<https://uvicombudsperson.ca/>

