

201-NYB-05 Calculus II – Section 06

Fall 2019

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Classes schedule and Office hours:

	Monday	Tuesday	Wednesday	Thursday	Friday
8h30 – 9h00		Calculus II			Calculus II
9h00 – 9h30		Section 06			Section 05
9h30 – 10h00		P-210			C-0017
10h00 – 10h30		Office			Office Hours
10h30 – 11h00		Hours			
11h00 – 11h30					
11h30 – 12h00	Calculus II	Calculus II			
12h00 – 12h30	Section 05	Section 05			
12h30 – 13h00	H-335	H-335	Calculus II		
13h00 – 13h30	Office	Math Help	Section 06		Calculus II
13h30 – 14h00	Hours	Center	H-232		Section 06
14h00 – 14h30					H-312
14h30 – 15h00	Alg&Trig	Alg&Trig	Alg&Trig		Alg&Trig
15h00 – 15h30	Section 05	Section 05	Section 05		Section 05
15h30 – 16h00	HO-214	H-219	H-219		P-211
16h00 – 16h30					
16h30 – 17h00					

Evaluations: The class grade will be built up from the grades coming from assignments, quizzes and tests in the following percentage:

75% 3 tests (each worth 25%),
15% 4 quizzes,
10% homework assignments.

Tests: Tests will be 1 hour long, followed by an in-class correction of the exercises.

Coats and backpacks are not allowed during a test and will be stored at the front of the class. During a test, cellphones must be turned off and stored with the backpack. Any student looking at his/her cellphone during a test will be reported as cheating.

Elements of competencies tested in each test:

Test #1 1., 3.
Test #2 2., 4., 5.
Test #3 6.

Quizzes: Quizzes will be about 20 minutes long, followed by an in-class correction of the exercises.

During a quiz everything except what is needed to write the quiz must be stored in the backpack. Cellphones must be turned off and stored in the backpack as well. Any student looking at his/her cellphone during a quiz will be reported as cheating.

Homework: you will be given approximately weekly assignments to submit online on Webwork. Discussions and work group are highly encouraged!

After each deadline, the homework exercises will be still available on Webwork for practising, but they will not be graded.

Final grade: the final course grade will be the better of

50% class – 50% final or 25% class – 75% final.

Make-ups: any student missing a quiz or a test will receive a grade of zero unless the following conditions are met: the absence to the test/quiz is legitimate and documented and the instructor is notified of the absence before the test day.

Under these conditions, for a missed test, the student will write an alternative test (note that this alternative test might be harder than the original test), while for a missed quiz, the student's grade for that quiz will be dropped from his grade.

Expectations: While in class, you are expected to follow the student code of conduct as outlined in the academic calendar. In particular, the following rules apply.

- No swearing or other disrespectful behaviour in class.
- Each class will start sharply on the time announced in the schedule. Students must be in class ready before that time. Students being late in class will be asked to take a seat near the door.
- Students must remain in class during the entire duration of the class. If you need to go early, please warn me before class starts and take a seat near the door.
- No talking during lecture or when another student's question is answered.
- No explaining of topics between students during the lecture periods. It's distracting and unfair to the rest of the class.

If you have questions, directly ask me and I will explain it for the entire class.

- Electronic devices must be closed and put away. In case of exceptional circumstances (ex. answering an important phone call), please leave the classroom to do so. Any electronic device seen on your desk will be confiscated for the duration of the class.
- During problem solving sessions, you must actually be solving problems from this course.

(Tentative) course calendar:

	Tuesday	Wednesday	Friday
Week 1 (Aug 26th)	inverse functions and logarithms	limits at infinity; horizontal asymptotes	implicit differentiation
Week 2 (Sep 2nd) <i>Labour Day – Fête du travail</i>	antiderivatives	Fundamental Theorem of Calculus	indefinite integrals and the Net Change Theorem
Week 3 (Sep 9th)	substitution rule	integration by parts	trigonometric integrals
Week 4 (Sep 16th)	trig. integrals, trig. substitution	Quiz #1: all up to IBP	trig. substitution (part II)
Week 5 (Sep 23rd)	integration of rational function and partial fractions	partial fractions (part II)	<i>class cancelled (Climate Change Rally)</i>
Week 6 (Sep 30th)	strategies for integration	review for Test #1	Test #1: all up to strategies for integration
Week 7 (Oct 7th)	indeterminate forms and L'Hôpital's rule	improper integrals	area between curves
Week 8 (Oct 14th)	<i>Thanksgiving – Action de grâce</i>	volumes of revolutions (disks and washers)	Quiz #2: L'Hôpital's rule, improper integrals
Week 9 (Oct 21st)	volumes of revolution (cylindrical shells)	volumes (summary)	arc length
Week 10 (Oct 28th)	separable differential equations	models for population growth	word problems
Week 11 (Nov 4th)	Quiz #3: areas and volumes	sequences	review for Test #2
Week 12 (Nov 11th)	Test #2: from L'Hôpital's rule to diff. equations	series	series (geometric and telescopic)
Week 13 (Nov 18th)	absolute convergence, integral test, p -series	comparison test and limit comparison test	ratio test, root test

Disclaimer: the instructor reserves the right to make changes to the course calendar should this be necessary for academic or other reasons. Every effort will be made to minimize such changes.

	Tuesday	Wednesday	Friday
Week 14 (Nov 25th)	Quiz #4: from sequences to limit comparison test	alternating series	strategies to test series
Week 15 (Dec 2nd)	power series, radius and interval of convergence	Taylor and McLaurin series	review for Test #3
Week 16 (Dec 9th)	Test #3: all sequences and series	review for the final	