MATH 1290 (Engineering Mathematics II, Credit Hours: 3), Winter 2020 - Course Outline

Instructor:	Dr. Edward Yao, Dept. of Engineering Mathematics and Internetworking, <u>Edward.Yao@Dal.Ca</u>			
Lectures:	MWF 1:35pm – 2:25pm Studley MCCAIN ARTS&SS AUD-2 (Ondaatje Hall).			
Tutorials:	MWF 10:35am – 11:25am and 11:35am – 12:25pm at various locations. There are basically two			
	tutorials per week (see schedule below). Attendance is mandatory for both lectures and tutorials. The first			
	tutorial is held on Wednesday January 8. Students must attend tutorials in the assigned Home Tutorial			
	Rooms - see "Grades" on Brightspace - for which the tutorial sections of registration are not all			
	to change after 8:00am on Monday January 6.			
Office Hours:	by appointment.			
Textbook:	Calculus: Early Transcendentals by W. Briggs et al., 3rd Edition.			
WEB:	This course has a major presence on Brightspace.			
Assignments:	There will be 12 weekly Assignments. Due dates are given below. The assignments must be handed in at			
	the beginning of tutorial in the assigned home tutorial rooms. All assignments will have to be			
	submitted with a standard assignment Cover Sheet that can be downloaded from and/or filled in on			
	Brightspace. Assignments that are either late or without a Cover Sheet are not accepted and a zero mark			
	will be recorded. Copy of assignment solutions from others or from a solution manual is strictly forbidden			
	(see <u>Academic Integrity</u>).			

Grading Scheme:

- Quizzes: There will be three Quizzes. Quiz #1 accounts for 20%, Quiz #2 30%, and Quiz #3 40%. All three Quizzes count. No makeup quizzes. No Calculators. No listening devices. Turn off everything you have that makes noise. Bring your DAL ID to each Quiz. If you miss a quiz of the first two due to illness, a legitimate medical diagnosis of the illness must be included by the attending physician, not a nurse, with "too ill to write" stated, and sent to the Associate Dean's Office for an approval. If approved, a *comprehensive* test defined by the instructor will replace your missed quiz and must be written on Tuesday April 7 (not negotiable). If not, a zero mark will be recorded. Quiz #3, treated as the final exam, is mandatory for all students registered in the course. No supplementary final exam.
- Assignments: 8%.
- **Class Activity:** 2%. There will be a class activity that must be completed in class only. Attendance is mandatory. No makeup class activity at any rate. A zero mark will be recorded if you miss a class activity and/or your doctor's note is not approved by the Associate Dean's office.

Assignments Due and Pickup Dates: (Students must submit assignments to the assigned home tutorial rooms on the following due dates, at the beginning only. Unclaimed assignments are kept at the TA's offices and will be dumped out at the end of examination period in April)

A1 due: Mon Jan 13 (pick up: Mon Jan 20) A2 due: Mon Jan 20 (pick up: Wed Jan 29) A3 due: Wed Jan 29 (pick up: Wed Feb 5) A4 due: Wed Feb 5 (pick up: Fri Feb 14) A5 due: Fri Feb 14 (pick up: Mon Feb 24) February 17 – 21 (**Study Break** – no classes) A6 due: Mon Feb 24 (pick up: Mon Mar 2) A7 due: Mon Mar 2 (pick up: Wed Mar 11) A8 due: Wed Mar 11 (pick up: Fri Mar 20)

A9 due: Fri Mar 20 (pick up: Fri Mar 27) A10 due: Fri Mar 27 (pick up: Fri Apr 3) A11 due: Fri Apr 3 (pick up: Thu Apr 9 after 1:00 pm in the basement of **Chase Building**) A12 due: Tue Apr 7 at the door of **Dunn 327** b/t

1:00 – 3:00 pm (pick up: on Mon Apr 13 after 1:00 pm in the basement of **Chase Building**)

Quiz Dates: (Quizzes 1 and 2 will be held in evenings from 7:30pm – 9:30pm on Sexton campus)

Quiz 1: **Tuesday February 11** (2 hours). Reference: A1 - A3 (In case University closed on Tue Feb 11 due to a snowstorm alert, then Quiz 1 will be postponed to **Thursday February 13** from 7:30pm – 9:30pm)

Quiz 2: **Tuesday March 17** (2 hours). Reference: A4 - A7 (In case University closed on Tue Mar 17 due to a snowstorm alert, then Quiz 2 will be postponed to **Thursday March 19** from 7:30pm – 9:30pm)

Quiz 3: scheduled in the exam period by the Registrars' Office (3 hours). Reference: A8 - A12

Letter Grades (Faculty of Engineering default scheme):

90-100 A+	85-89.9 A	80-84.9 A-	77-79.9 B+	73-76.9 B	70-72.9 B-
65-69.9 C+	60-64.9 C	55-59.9 C-	50-54.9 D	<50 F	

Schedule:

January 6 - 10	6.1 Velocity and Net Change
	6.2 Regions between Curves
	6.3 Volume by Slicing
Wed Jan 8 Emi Jon 10	1 UTOFIAI #1 Tytopial #2
rn jan iv	1 utoriai #2
January 13 - 17	Assignment #1 due on Mon Jan 13 in the assigned home tutorial room only
	6.4 Volume by Shells
	6.5 Length of Curves
	6.7 Physical Applications
Wed Jan 15	Tutorial #3
Fri Jan 17	1 utorial #4
	January 17 th : Last day for late registration
	oundury 17 + Lust duy for het registration
January 20 - 24	Assignment #2 due on Mon Jan 20 in the assigned home tutorial rooms only
	7.1 Logarithmic and Exponential Functions Revisited
	7.2 Exponential Models
Wed Jan 22 Evi Jon 24	Tutorial #5
rri jan 24	1 utoriai #0
January 27 - 31	Assignment #3 due on Wed Jan 29 in the assigned home tutorial rooms only
	8.2 Integration by Parts
	8.3 Trigonometric Integrals
	8.4 Trigonometric Substitutions
Wed Ion 20	Tutorial #7
Fri Jan 31	Tutorial #8
111 Jun J1	
	January 31 st : Last day to drop winter term courses w.o. 'W'
February 3 7	Assignment #4 due on Wed Eeb 5 in the assigned home tutorial rooms only
February 3 - 7	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions
February 3 - 7	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration
February 3 - 7	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration
February 3 - 7 Mon Feb 3	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9
February 3 - 7 Mon Feb 3 Wed Feb 5	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a
February 3 - 7 Mon Feb 3 Wed Feb 5	January 31*: Last day to drop winter term courses w.o. *W* Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a
February 3 - 7 Mon Feb 3 Wed Feb 5 *Fri Feb 7	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed
February 3 - 7 Mon Feb 3 Wed Feb 5 *Fri Feb 7	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed
February 3 - 7 Mon Feb 3 Wed Feb 5 *Fri Feb 7 February 10 - 14	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.0 Immersed Integrals
February 3 - 7 Mon Feb 3 Wed Feb 5 *Fri Feb 7 February 10 - 14	January 31*: Last day to drop winter term courses w.o. *W* Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pros 597, 600)+9.3+9.4 Introduction to Differential Equations
February 3 - 7 Mon Feb 3 Wed Feb 5 *Fri Feb 7 February 10 - 14	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations
February 3 - 7 Mon Feb 3 Wed Feb 5 *Fri Feb 7 February 10 - 14 Mon Feb 10	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations Tutorial #10b
February 3 - 7 Mon Feb 3 Wed Feb 5 *Fri Feb 7 February 10 - 14 Mon Feb 10 Fei Feb 14	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations Tutorial #10b
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February 3 - 7Mon Feb 3Wed Feb 5*Fri Feb 7February 10 - 14Mon Feb 10Fri Feb 14February 17 - 21	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations Tutorial #10b Tutorial #11
February 3 - 7Mon Feb 3Wed Feb 5*Fri Feb 7February 10 - 14Mon Feb 10Fri Feb 14February 17 - 21	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations Tutorial #10 Tutorial #11
February 3 - 7Mon Feb 3Wed Feb 5*Fri Feb 7February 10 - 14Mon Feb 10Fri Feb 14February 17 - 21	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.3 Numerical Integration Tutorial #9 Tutorial #10a Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations Tutorial #10b Tutorial #11 Study Break – no classes
February 3 - 7Mon Feb 3Wed Feb 5*Fri Feb 7February 10 - 14Mon Feb 10Fri Feb 14February 17 - 21*Mon Feb 17	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations Tutorial #10b Tutorial #11 Study Break – no classes
February 3 - 7Mon Feb 3Wed Feb 5*Fri Feb 7February 10 - 14Mon Feb 10Fri Feb 14February 17 - 21*Mon Feb 17	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations Tutorial #10b Tutorial #11 Study Break – no classes Tutorial #12 notes will be posted on Brightspace
February 3 - 7Mon Feb 3Wed Feb 5*Fri Feb 7February 10 - 14Mon Feb 10Fri Feb 14February 17 - 21*Mon Feb 17February 24 - 28	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations Tutorial #10b Tutorial #11 Study Break – no classes Tutorial #12 notes will be posted on Brightspace Assignment #6 due on Mon Feb 24 in the assigned home tutorial rooms only
February 3 - 7Mon Feb 3Wed Feb 5*Fri Feb 7February 10 - 14Mon Feb 10Fri Feb 14February 17 - 21*Mon Feb 17February 24 - 28	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations Tutorial #10b Tutorial #11 Study Break – no classes Tutorial #12 notes will be posted on Brightspace Assignment #6 due on Mon Feb 24 in the assigned home tutorial rooms only 12.1 Parametric Equations
February 3 - 7Mon Feb 3Wed Feb 5*Fri Feb 7February 10 - 14Mon Feb 10Fri Feb 14February 17 - 21*Mon Feb 17February 24 - 28	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations Tutorial #10b Tutorial #11 Study Break – no classes Tutorial #12 Assignment #6 due on Mon Feb 24 in the assigned home tutorial rooms only 1.1 Parametric Equations 1.2 Polar Coordinates
February 3 - 7Mon Feb 3Wed Feb 5*Fri Feb 7February 10 - 14Mon Feb 10Fri Feb 14February 17 - 21*Mon Feb 17February 24 - 28	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations Tutorial #10b Tutorial #11 Study Break – no classes Tutorial #12 Assignment #6 due on Mon Feb 24 in the assigned home tutorial rooms only 1.1 Parametric Equations
February 3 - 7Mon Feb 3 Wed Feb 5*Fri Feb 7February 10 - 14Mon Feb 10 Fri Feb 14February 17 - 21*Mon Feb 17 February 24 - 28Wed Feb 26	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations Tutorial #10b Tutorial #11 Study Break – no classes Tutorial #12 notes will be posted on Brightspace Assignment #6 due on Mon Feb 24 in the assigned home tutorial rooms only 12.1 Parametric Equations 12.2 Polar Coordinates Tutorial #13
February 3 - 7Mon Feb 3Wed Feb 5*Fri Feb 7February 10 - 14Mon Feb 10Fri Feb 14February 17 - 21*Mon Feb 17February 24 - 28Wed Feb 26Fri Feb 28	Assignment #4 due on Wed Feb 5 in the assigned home tutorial rooms only 8.5 Partial Fractions 8.8 Numerical Integration Tutorial #9 Tutorial #10a Munro Day- University closed Assignment #5 due on Fri Feb 14 in the assigned home tutorial rooms only 8.9 Improper Integrals 9.1(Pgs 597-600)+9.3+9.4 Introduction to Differential Equations Tutorial #10b Tutorial #11 Study Break – no classes Tutorial #12 notes will be posted on Brightspace Assignment #6 due on Mon Feb 24 in the assigned home tutorial rooms only 12.1 Parametric Equations 12.2 Polar Coordinates Tutorial #13 Tutorial #13

Mar 2 – 6	Assignment #7 due on Mon Mar 2 in the assigned home tutorial rooms only 10.1 An Overview 10.2 Sequences		
Fri Mar 6	Tutorial #15		
Mar 9 - 13	Assignment #8 due on Wed Mar 11 in the assigned home tutorial rooms only 10.3 Infinite Series 10.4 The Divergence and Integral Tests		
Mon Mar 9	Tutorial #16		
Wed Mar 11	Tutorial #17		
*Fri Mar 13	No tutorial (Tutorial #18 is rescheduled on Mon Mar 16)		
	March 9h: Last day to drop class w. 'W'		
March 16 - 20	Assignment #9 due on Fri Mar 20 in the assigned home tutorial rooms only 10.7+10.5 The Ratio, Root, and Comparison Tests 10.6 Alternating Series		
Mon Mar 16	Tutorial #18		
Fri Mar 20	Tutorial #19		
March 23 - 27	Assignment #10 due on Fri Mar 27 in the assigned home tutorial rooms only 11.1 Approximating Functions with Polynomials 11.2 Properties of Power Series		
Wed Mar 25	Tutorial #20		
Fri Mar 27	Tutorial #21		
Mar 30 – 3	Assignment #11 due on Fri Apr 3 in the assigned home tutorial rooms only 11.3 Taylor Series 11.4 Working with Taylor Series		
Mon Mar 30	Tutorial #22		
Fri Apr 3	Tutorial #23		
April 6	Class Activity on Monday April 6 – Last day of classes, winter term		
Mon Apr 6	Tutorial #24		
Tue Apr 7	Assignment #12 due at the door of Dunn 327 b/t 1:00pm – 3:00pm only		
April 8 - 24	Quiz #3 (3 hours) will be held in the exam period – a date will be scheduled by the Registrars' Office.		
	Assignment #11 pickup on 1 nu Apr 9 after 1:00 pm in the basement of Chase Building Assignment #12 pickup on Mon Apr 13 after 1:00 pm in the basement of Chase Building		

[†] The schedule is subject to change according to **Dal Alert** re unexpected snowstorms.

Student Absence Reporting

Any absence resulting in missed academic work must be reported using the Engineering Student Absence Reporting online system. This applies to both Student Declaration of absence and Request for Accommodation. Visit <u>Engineering Forms</u> for details and to submit a request.

Student Learning Outcomes

Through class assignments, in-class activities, and in-class quizzes, Students will be able to:

- 1. Effectively write mathematical solutions in a clear and concise manner.
- 2. Demonstrate ability to think critically effectively interpreting and using functions of single variable.
- 3. Locate and use information to solve calculus problems in single variable.
- 4. Demonstrate ability to think critically by recognizing patterns and determining and using appropriate techniques for solving a variety of integration and differentiation problems in single variable.
- 5. Demonstrate the ability to think critically by setting up and solving application problems involving definite integrals.
- 6. Demonstrate an intuitive and computational understanding for calculus applications by solving a variety of problems from physics, engineering, and mathematics.
- 7. Work effectively with others to complete in-class activities.

Associate Deans Office – Undergraduate Studies

Associate Dean:	Dr. Timothy Little timothy.little@dal.ca
Undergraduate Office Coordinator:	Jason Lecoure <u>Jason.lecoure@dal.ca</u>
Student Success Coordinator:	Karyn Hemsworth Karyn.hemsworth@dal.ca
General Inquires:	engineering@dal.ca or (902) 494-2963

Dalhousie Engineering Student Oath

I, as one who is preparing to enter the profession of engineering, promise to conduct myself in an honorable and ethical manner, and, as such, I will not cheat, plagiarize or be involved in any other academically dishonest activities. I shall uphold the values of truth, honesty and trustworthiness. I shall study diligently so that I will be able to safeguard human life, to protect the welfare of society and the environment, and to uphold the reputation of the profession. In all this I shall be concerned for the well-being of others, and not just myself.

University Policies, Statements, Guidelines and Resources for Support

This course is governed by the academic rules and regulations set forth in the University Calendar and the Senate. For details see the <u>University Calendar</u>.

University Statements

• Academic Integrity

At Dalhousie University, we are guided in all of our work by the values of academic integrity: honesty, trust, fairness, responsibility and respect (The Center for Academic Integrity, Duke University, 1999). As a student, you are required to demonstrate these values in all of the work you do. The University provides policies and procedures that every member of the university community is required to follow to ensure academic integrity. For details visit <u>Academic Integrity</u>.

Accessibility

The Advising and Access Centre and the Student Success Centre (<u>Agricultural</u> <u>Campus</u>) serve as Dalhousie's centres for expertise on student accessibility and accommodation. Our work is governed by Dalhousie's Student Accommodation Policy to best support the needs of Dalhousie students. Our team work with students who request accommodation as a result of: disability, religious obligation, an experienced barrier related to any other characteristic protected under Canadian Human Rights legislation. For details visit <u>Accessibility</u>.

• Student Code of Conduct

Everyone at Dalhousie is expected to treat others with dignity and respect. The Code of Student Conduct allows Dalhousie to take disciplinary action if students don't follow this community expectation. When appropriate, violations of the code can be resolved in a reasonable and informal manner. If an informal resolution can't be reached, or would be inappropriate, procedures exist for formal dispute resolution. For details visit <u>Student Conduct</u>.

• Diversity and Inclusion - Culture of Respect

Every person at Dalhousie has a right to be respected and safe. We believe inclusiveness is fundamental to education. We stand for equality. Dalhousie is strengthened in our diversity. We are a respectful and inclusive community. We are committed to being a place where everyone feels welcome and supported. For details visit <u>Culture of Respect</u>.

• Recognition of Mi'kmaq Territory

Dalhousie University acknowledges that the University is located on Traditional Mi'kmaq Territory. The Elders in Residence program provides students with access to First Nations elders for guidance, counsel and support. Visit the office in the McCain Building (room 3037) contact the programs at <u>elders@dal.ca</u> or 902-494-6803.

University Policies and Programs

• Important Dates in the Academic Year (including add/drop dates) can be found at Important Dates.

- University Grading Practices: Statement of Principles and Procedures. For details visit <u>Grading Practices and Policy</u>.
- Scent-Free Program. For details visit <u>Scent Free</u>.
- Faculty Information: Student Self-Declaration of Absence. For details visit <u>Student</u> <u>Absence Declaration</u>.

Learning and Support Resources

- General Academic Support Advising Halifax: Visit <u>Academic Support</u>. Truro: Visit <u>Agricultural Campus Academic Support</u>.
- Fair Dealing Guidelines. For details visit Fair Dealing Guidelines.
- Black Students. For details visit Black Student Advising.
- International Students. For details visit International Centre.
- Indigenous Students. For details visit Indigenous Student Center.
- Library. For details visit Libraries.
- Copyright Office. For details visit Copyright Office.
- E-Learning website <u>eLearning</u>.
- Writing Centre. Visit <u>Writing Centre</u>.

• Faculty or Departmental Advising Support: Studying for Success Program For details visit <u>Study Skills/Tutoring</u>.

• Student Finance page: Visit Money Matters.

Student Health and Wellness Resources

- Student Health and Wellness. Visit Student Health & Wellness.
- Student Services @ Sexton. Visit Student Services @ Sexton.
- Online Resources for Students. For details visit Online Resources for Students.

Safety

- Biosafety. Visit <u>Biosafety</u>.
- Research Laboratory Safety Policy Manual. Visit Documents, Policies & Procedures.
- Laboratory Chemical Safety Manual. Visit Chemical Safety.
- Radiation Safety Manual. Visit Radiation Safety.

Other Info

Lectures and Tutorials are not to be audio and video recorded in any format for this course.

Course Description

MATH 1010 Differential and Integral Calculus II CREDIT HOURS: 3 A continuation of the study of calculus with topics including: Riemann sums, techniques of integration, elementary differential equations and applications, parametric equations and polar coordinates, sequences and series, Taylor series.

 MATH 1290 Engineering Mathematics II
 CREDIT HOURS: 3

 This course is a sequel to MATH 1280. All topics of MATH 1010.03 are covered, but in greater depth. This course also introduces the students to the application of mathematics in engineering problems.

 NOTES: 1: Students who have already received credit for MATH 1290.03 cannot subsequently receive credit for MATH 1010.03 2: MATH 1010.03 is not equivalent to MATH 1290.03

 FORMAT:

- Lecture
- Tutorial

PREREQUISITES: MATH 1280.03

Math and Stat Learning Center Winter 2020 Schedule

Location: Chase 119

First day: Monday, January 6, 2020

Last day: Friday, April 24, 2020

Hours: Monday through Friday 12:00pm ~ 5:00pm

Closed on the holidays: February 7, February 17, and April 10

Reduced study break hours: February 17-21, open from 1:00pm ~ 4:00pm