INSTRUCTOR:  Dr. Mohsen Mollahajiaghaei  
Email: mmollah@uwo.ca

TEXTBOOK: Custom package (text and student solutions manual).  
Introductory Calculus: Math 0110A/B.  
ISBN 0176849491.

WHAT IS EXPECTED OF THE STUDENT?

• working knowledge of, and any needed review of, all relevant pre-Calculus concepts; this includes:
  o factoring, expanding (including factoring quadratics, collecting like terms, FOIL, etc)
  o add, subtract, multiply, divide (including fractions, negative numbers, square roots)
  o knowing how the ‘number line’ works and how to plot (x,y) coordinates on a graph
  o knowing how to isolate for x in linear expressions like 2(3 + 2x) = 7 + 3(x - 1)
  o using the laws of exponents, including for fractional exponents

• regular attendance at classes. Attendance will be taken on random days.
• completion of all assigned work. Regular quizzes will check this (dates will be known in advance).
• assumption of complete responsibility for any classes, tests, or assignments which are missed.
• awareness of items on the OWL forum and use of materials posted on the course OWL web site.
• it is up to the student to seek out help when needed.

PREREQUISITES:  
One or more of Ontario Secondary School MCF3M, MCR3U, or equivalent.
Comment: students entering with MHF4U (advanced functions, also called “algebra II”) or MCR3U have the ideal preparation for this course. Students from MCF3M (or equivalent) will be lacking substantial background material, and, concurrent with learning new material, will need to spend the first few weeks of the term on the assigned “chapter 0” material to catch up, and get help when needed.

ANTIREQUISITES:  
Mathematics 1225A/B, 1230A/B, Calculus 1000A/B, the former 1100A/B, 1500A/B, Applied Mathematics 1413.

COURSE OUTLINE:  
Limits, continuity, definition of derivative, rules for differentiation, higher-order derivatives, velocity, acceleration, implicit differentiation, related rates, exponential functions, logarithmic functions, differentiation of exponential and logarithmic functions, maxima and minima, concavity, curve sketching, optimization.

CLASS SCHEDULE:  
Section 550
Days & Times M-Tu-W-F
Location HC V214 3:30 PM- 4:30 PM
COURSE WEB SITE:
Various supplemental materials, such as practice tests, are posted on the course OWL web site. In addition, there are forums on which students may post questions. Important information will be posted on the NEWS forum and/or on the class page on the web site. All students are expected to be aware of information, and make use of materials, posted on the course web site.

INSTRUCTOR CONTACT INFORMATION:
Mohsen Mollahajiaghaei (550): mmollahah@uwo.ca, office A2d

Note: Any email sent to an instructor SHOULD say Math 0110B in the subject line.

(Office Hours: Monday 2:30-3:30 and Wednesday 2:30-3:30)

Please contact your course instructor if you require material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 x82147 for any specific question regarding an accommodation.

EVALUATION OF STUDENT PERFORMANCE:

Students will be assessed based on:

- Class Work (15%)
- Test 1 (20%)
- Test 2 (25%)
- Final Exam (40%)

Information about how the Class Work component will be assessed, and details of the timing, will be announced in class and posted on the OWL web site.

The two Term Tests, each 90 minutes in length, will be held on

    Friday February 9, 2018, from 7:00 - 8:30 p.m.

and

    Friday March 16, 2018, from 7:00 - 8:30 p.m.

Locations of these tests will be announced in class and/or on the course web site. The Final Exam will be 3 hours in length, covering all of the course material. This exam will be scheduled by the Registrar’s Office during the April Exam Period. To help you prepare, practice tests and practice exams are available on the course OWL page.
Notes:

1. The Tests and Examination will all have some multiple-choice questions and some written answer questions.

2. NO calculators or other electronic devices or any other aids are allowed on tests and exams. Use of any electronic communication device during a quiz, test or exam will result in an automatic grade of zero on that assessment, plus any additional penalties applied by the Dean’s Office.

3. See Absence / Missed Work policy on next page.

4. If the student’s final exam mark is higher than a test mark (for a test which the student wrote), the weight from that test will be shifted to the final exam. This may apply to either, or both, of the term tests. This policy does not apply to the class work – the final exam grade cannot replace your assignments, quizzes, etc.

Your mark in the course will be the mark that you earn based on your demonstrated understanding of the course content, assessed using the criteria outlined above. Extra credit assignments are not available, and tests and exams cannot be rewritten to obtain a higher mark. There are no exceptions for any reason.

IMPORTANT NOTE: The provision in note 4 about the weighting of the final exam is intended to allow students who struggle with the course material, but DO master it by the end of the term, to receive a grade which reflects their understanding at the end of the course. It DOES NOT mean that it’s okay to ignore the course until just before the final exam. Most of the students who take this course find that the material does not come easily. Students need to work steadily at this course THROUGHOUT the term to have any realistic hope of a successful result.

SENATE POLICY ON PREREQUISITES:
Prerequisite checking is the student's responsibility. Unless you have either the prerequisites 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.
STATEMENT ON ACADEMIC OFFENCES:
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

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

ABSENCE / MISSED WORK:
If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or other supporting documentation to your Dean's Office as soon as possible and contact your instructor immediately. It is the student's responsibility to make alternative arrangements with his or her instructor once the accommodation has been approved and the instructor has been informed. In the event of a missed final exam, a "Recommendation of Special Examination" form must be obtained from the Dean's Office immediately. For further information concerning UWO's Policy on Accommodation for Medical Illness please refer to this policy at:

http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf

A student requiring academic accommodation due to illness should use the Student Medical Certificate when visiting an off-campus medical facility or request a Record’s Release Form (located in the Dean's Office) for visits to Student Health Services. The form can be found here: https://studentservices.uwo.ca/secure/medical_document.pdf

A makeup will be held for each term test as well as for the final exam. Only students with prior permission from academic counselling will be allowed to write the makeup for a test. Only students with a Recommendation for Special Exam from their Dean's Office will be allowed to write a makeup for the Final Exam. Any student who misses a portion of the Class Work component of the grade for any legitimate reason should contact your instructor as soon as possible. Supporting documentation may be required. In the case of missed Class Work, or if a student is unable to write the scheduled makeup for a Term Test due to a documented prolonged or recurring absence or other legitimate conflict, your instructor will decide whether to accommodate by rescheduling or by reweighting that component of the grade.

SUPPORT SERVICES
Office of the Registrar
UWO
Huron

http://www.registrar.uwo.ca
http://www.huronuc.on.ca/CurrentStudents/studentLifeandSupportServices/academicResources

Student Development Services
http://www.sdc.uwo.ca/
Learning Skills Services
http://www.sdc.uwo.ca/learning
USC
http://westernusc.ca/services
Academic Calendar
http://www.westerncalendar.uwo.ca/
ITS
http://www.uwo.ca/its/helpdesk

Students who are in emotional/mental distress should refer to Mental Health @ Western via the link given below for a complete list of the options about how to obtain help:

http://www.uwo.ca/uwocom/mentalhealth/
## Mathematics 0110A Recommended Exercises - Winter 2018

### Pre-Calculus Review (you will be quizzed)

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
<th>Problems</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.3</td>
<td>18</td>
<td>odd 1-15, odd 21-29, odd 37-43, odd 45-51.</td>
</tr>
<tr>
<td>0.4</td>
<td>24</td>
<td>odd 9-17, odd 35-45.</td>
</tr>
<tr>
<td>0.5</td>
<td>32</td>
<td>odd 1-13, 19, 25, 27, 29.</td>
</tr>
</tbody>
</table>

### Homework Problems

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
<th>Problems</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.3</td>
<td>65</td>
<td>odd 1-25, odd 27-35, odd 37-47, 49, 53.</td>
</tr>
<tr>
<td>1.4</td>
<td>78</td>
<td>odd 21-33, 37, 39.</td>
</tr>
<tr>
<td>1.5</td>
<td>91</td>
<td>3, 5, odd 17-21, odd 23-45, odd 51-59.</td>
</tr>
<tr>
<td>1.6</td>
<td>101</td>
<td>odd 1-21, 25, 27, 45.</td>
</tr>
<tr>
<td>Ch. 1 Review</td>
<td>108</td>
<td>1, 3, odd 43–51, 69 (no graph), 73, odd 79-89, 105, 107, 111, 113.</td>
</tr>
<tr>
<td>2.1</td>
<td>123</td>
<td>15, 17, 19, 23, 25, 27, 31, 37, odd 51-59.</td>
</tr>
<tr>
<td>2.2</td>
<td>134</td>
<td>odd 5-27, odd 29-33, odd 35-47, 53, 55.</td>
</tr>
<tr>
<td>2.3</td>
<td>143</td>
<td>odd 3-7 (no graph, and only find the average rate of change on interval).</td>
</tr>
<tr>
<td>2.4</td>
<td>155</td>
<td>odd 1-15, odd 17-23, odd 25-33, 41 (no graph), 43 (no graph), 47, 65.</td>
</tr>
<tr>
<td>2.5</td>
<td>165</td>
<td>odd 1-13, odd 23-35, odd 39-45 (no graph), odd 51-65, 69 (no graph).</td>
</tr>
<tr>
<td>2.6</td>
<td>172</td>
<td>odd 1-33, 35, 41.</td>
</tr>
<tr>
<td>App B1</td>
<td>190</td>
<td>odd 1-23, 25, 27.</td>
</tr>
<tr>
<td>App B2</td>
<td>196</td>
<td>1, 3, 5, 7, 9, 11, 15.</td>
</tr>
<tr>
<td>4.1</td>
<td>279</td>
<td>odd 1-7, all 13-18, 31b.</td>
</tr>
<tr>
<td>4.2</td>
<td>285</td>
<td>1, 3, all 5-10, 11, 13.</td>
</tr>
<tr>
<td>4.3</td>
<td>293</td>
<td>odd 5-15, 17, 21, 23, 25.</td>
</tr>
<tr>
<td>4.5</td>
<td>311</td>
<td>odd 5-17, 23, odd 39-47, 49, 51, 55, 57, 61, 65.</td>
</tr>
<tr>
<td>Supplement</td>
<td>343</td>
<td>all 1-8.</td>
</tr>
<tr>
<td>3.1</td>
<td>207</td>
<td>odd 1-7, odd 9-15, odd 19-25, odd 29-35.</td>
</tr>
<tr>
<td>3.2</td>
<td>217</td>
<td>odd 1-9, odd 13-17, odd 19-23, 29.</td>
</tr>
<tr>
<td>3.3</td>
<td>226</td>
<td>odd 1-21, all 27-30, 31, 35, 39, 43.</td>
</tr>
<tr>
<td>3.4</td>
<td>235</td>
<td>1, 3, 5, 7, 11, 17, 19.</td>
</tr>
<tr>
<td>3.5</td>
<td>246</td>
<td>odd 1-9, odd 13-19, odd 29-39.</td>
</tr>
<tr>
<td>3.6</td>
<td>256</td>
<td>odd 1-11, 17, 19, 23, 27, 37.</td>
</tr>
<tr>
<td>4.3</td>
<td>293</td>
<td>29.</td>
</tr>
<tr>
<td>4.5</td>
<td>311</td>
<td>67.</td>
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</tbody>
</table>

- **Chapter 0 problems are for review by the student and should be completed as soon as possible.**
- **Page numbers and text references refer to the custom text for Math 0110A/B.**
- **Any changes to this list will be announced on the NEWS and/or Homework forums in the OWL web site.**
- **Answers for odd numbered questions are in the back of the text. See OWL for solutions to the even-numbered questions.**
Appendix to Course Outlines

Prerequisite Information
Students are responsible for ensuring that they have successfully completed all course prerequisites. Unless you have either the requisites for this course or written special permission from your Provost and Dean to enrol 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.

Conduct of Students in Classes, Lectures, and Seminars
Membership in the community of Huron University College and the University of Western Ontario implies acceptance by every student of the principle of respect for the rights, responsibilities, dignity and well-being of others and a readiness to support an environment conducive to the intellectual and personal growth of all who study, work and live within it. Upon registration, students assume the responsibilities that such registration entails. The academic and social privileges granted to each student are conditional upon the fulfillment of these responsibilities.

In the classroom, students are expected to behave in a manner that supports the learning environment of others. Students can avoid any unnecessary disruption of the class by arriving in sufficient time to be seated and ready for the start of the class, by remaining silent while the professor is speaking or another student has the floor, and by taking care of personal needs prior to the start of class. If a student is late, or knows that he/she will have to leave class early, be courteous: sit in an aisle seat and enter and leave quietly.

Please see the Code of Student Rights and Responsibilities at:
http://www.huronuc.ca/CurrentStudents/StudentLifeandSupportServices/StudentDiscipline

Technology
It is not appropriate to use technology (such as, but not limited to, laptops, cell phones) in the classroom for non-classroom activities. Such activity is disruptive and is distracting to other students and to the instructor, and can inhibit learning. Students are expected to respect the classroom environment and to refrain from inappropriate use of technology and other electronic devices in class.

Academic Accommodation for Medical/Non-Medical Grounds
Students who require special accommodation for tests and/or other course components must make the appropriate arrangements with the Student Development Centre (SDC). Further details concerning policies and procedures may be found at:
http://www.sdc.uwo.ca/ssd/?requesting_accc

(a) Medical Grounds for assignments worth 10% or more of final grade: Go Directly to Academic Advising

University Senate policy, which can be found at
http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf,
requires that all student requests for accommodation on medical grounds for assignments worth 10% or more of the final grade be made directly to the academic advising office of the home faculty (for Huron students, the “home faculty” is Huron), with supporting documentation in the form (minimally) of the
Senate-approved Student Medical Certificate found at: 

The documentation is submitted in confidence and will not be shown to instructors. The advisors will contact the instructor when the medical documentation is received, and will outline the severity and duration of the medical challenge as expressed on the Student Medical Certificate and in any other supporting documentation. The student will be informed that the instructor has been notified of the presence of medical documentation, and will be instructed to work as quickly as possible with the instructor on an agreement for accommodation. The instructor will not normally deny accommodation where appropriate medical documentation is in place and where the duration it describes aligns with the due date(s) of assignment(s). Before denying a request for accommodation on medical grounds, the instructor will consult with the Provost and Dean. The instructor’s decision is appealable to the Provost and Dean.

(b) Accommodation on Medical Grounds for assignments worth less than 10% of final grade: Consult Instructor Directly

When seeking accommodation on medical grounds for assignments worth less than 10% of the final course grade, the student should contact the instructor directly. The student need only share broad outlines of the medical situation. The instructor may require the student to submit documentation to the academic advisors, in which case she or he will advise the student and inform the academic advisors to expect documentation. The instructor may not collect medical documentation. The advisors will contact the instructor when the medical documentation is received, and will outline the severity and duration of the medical challenge as expressed on the Student Medical Certificate and in any other supporting documentation. The student will be informed that the instructor has been notified of the presence of medical documentation, and will be instructed to work as quickly as possible with the instructor on an agreement for accommodation. The instructor will not normally deny accommodation where appropriate medical documentation is in place and where the duration it describes aligns with the due date(s) of assignment(s). Before denying a request for accommodation on medical grounds, the instructor will consult with the Provost and Dean. The instructor’s decision is appealable to the Provost and Dean.

(c) Non-medical Grounds: Consult Instructor Directly

Where the grounds for seeking accommodation are not medical, the student should contact the instructor directly. Late penalties may apply at the discretion of the instructor. Apart from the exception noted below, academic advisors will not be involved in the process of accommodation for non-medical reasons.

Where a student seeks accommodation on non-medical grounds where confidentiality is a concern, the student should approach an academic advisor with any documentation available. The advisors will contact the instructor after the student’s request is received, and will outline the severity and duration of the challenge without breaching confidence. The student will be informed that the instructor has been notified that significant circumstances are affecting or have affected the student’s ability to complete work, and the student will be instructed to work as quickly as possible with the instructor on an agreement for accommodation. Before denying a request for accommodation where documentation has been submitted to an academic advisor, the instructor will consult with the Provost and Dean. The instructor’s decision is appealable to the Provost and Dean.

Statement on Academic Offences

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
Statement on Academic Integrity

The International Centre for Academic Integrity defines academic integrity as "a commitment, even in the face of adversity, to five fundamental values: honesty, trust, fairness, respect, and responsibility. From these values flow principles of behaviour that enable academic communities to translate ideals to action." (CAI Fundamental Values Project, 1999).

A lack of academic integrity is indicated by such behaviours as the following:

- Cheating on tests;
- Fraudulent submissions online;
- Plagiarism in papers submitted (including failure to cite and piecing together unattributed sources);
- Unauthorized resubmission of course work to a different course;
- Helping someone else cheat;
- Unauthorized collaboration;
- Fabrication of results or sources;
- Purchasing work and representing it as one’s own.

Academic Integrity: Importance and Impact

Being at university means engaging with a variety of communities in the pursuit and sharing of knowledge and understanding in ways that are clear, respectful, efficient, and productive. University communities have established norms of academic integrity to ensure responsible, honest, and ethical behavior in the academic work of the university, which is best done when sources of ideas are properly and fully acknowledged and when responsibility for ideas is fully and accurately represented.

In the academic sphere, unacknowledged use of another’s work or ideas is not only an offence against the community of scholars and an obstacle to academic productivity. It may also be understood as fraud and may constitute an infringement of legal copyright.

A university is a place for fulfilling one's potential and challenging oneself, and this means rising to challenges rather than finding ways around them. The achievements in an individual’s university studies can only be fairly evaluated quantitatively through true and honest representation of the actual learning done by the student. Equity in assessment for all students is ensured through fair representation of the efforts by each.

Acting with integrity at university constitutes a good set of practices for maintaining integrity in later life. Offences against academic integrity are therefore taken very seriously as part of the university’s work in preparing students to serve, lead, and innovate in the world at large.

A university degree is a significant investment of an individual’s, and the public’s, time, energies, and resources in the future, and habits of academic integrity protect that investment by preserving the university’s reputation and ensuring public confidence in higher education.

Students found guilty of plagiarism will suffer consequences ranging from a grade reduction to failure in the course to expulsion from the university. In addition, a formal letter documenting the offence will be filed in the Provost and Dean’s Office, and this record of the offence will be retained in the Provost and Dean’s Office for the duration of the student’s academic career at Huron University College.

All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is
subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com.

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

Personal Response Systems ("clickers") may be used in some classes. If clickers are to be used in a class, it is the responsibility of the student to ensure that the device is activated and functional. Students must see their instructor if they have any concerns about whether the clicker is malfunctioning. Students must use only their own clicker. If clicker records are used to compute a portion of the course grade:

- the use of somebody else’s clicker in class constitutes a scholastic offence,
- the possession of a clicker belonging to another student will be interpreted as an attempt to commit a scholastic offence.

Policy on Special Needs
Students who require special accommodation for tests and/or other course components must make the appropriate arrangements with the Student Development Centre (SDC). Further details concerning policies and procedures may be found at:
http://www.sdc.uwo.ca/ssd/?requesting_acc

Attendance Regulations for Examinations
A student is entitled to be examined in courses in which registration is maintained, subject to the following limitations:
1) A student may be debarred from writing the final examination for failure to maintain satisfactory academic standing throughout the year.
2) Any student who, in the opinion of the instructor, is absent too frequently from class or laboratory periods in any course will be reported to the Provost and Dean of the Faculty offering the course (after due warning has been given). On the recommendation of the Department concerned, and with the permission of the Provost and Dean of that Faculty, the student will be debarred from taking the regular examination in the course. The Provost and Dean of the Faculty offering the course will communicate that decision to the Provost and Dean of the Faculty of registration.

Class Cancellations
In the event of a cancellation of class, every effort will be made to post that information on the Huron website, http://www.huronuc.ca/AccessibilityInfo ("Class Cancellations").

Mental Health @ Western
Students who are in emotional/mental distress should refer to Mental Health @ Western http://www.uwo.ca/uwocom/mentalhealth/ for a complete list of options about how to obtain help.

Academic Advising
For advice on course selections, degree requirements, and for assistance with requests for medical accommodation [see above], students should contact an Academic Advisor in Huron’s Student Support Services (huronsss@uwo.ca). An outline of the range of services offered is found on the Huron website at: http://www.huronuc.ca/CurrentStudents/AcademicAdvisorsandServices

Department Chairs and Program Directors and Coordinators are also able to answer questions about their individual programs. Their contact information can be found on the Huron website at: http://www.huronuc.ca/Academics/FacultyofArtsandSocialScience