CHEMISTRY 1311  F – Fall 2021  
Course Information and Syllabus

COURSE WEBSITE

Please notice that you will need to access 3 separate websites:

1. The UoO Bright Space System is for gradebook, participating to on-line lectures, DGDs and accessing recordings.
2. The link https://mysite.science.uottawa.ca/sgambarotta/content/chm1311-f-2020 (Course Website) is to find all the course material (General info, past year exams, this year exams, slideshows, etc.)
3. The Wiley+ web site (see below) for assignments and home midterm.

Due to the pandemic and until further notice, course, DGD, and exams will be all carried out online. To participate to the virtual meetings at the scheduled time, you will have to:

1. Go to your UoO Bright Space account
2. Select either the course or DGD
3. Click on ZOOM in the top menu
4. Select the day lecture (turn your camera off). All lectures will be automatically recorded in the “ZOOM cloud” for your convenience.

PROFESSOR:  
Prof. Sandro Gambarotta  
D’Iorio 305  
Email: sgambaro@uottawa.ca  
Cell: 613 866-6927

OFFICE HOURS (on line):  
by e-mail appointment

TEACHING ASSISTANTS (TA’s)  
(DGD) TBA  
(marketing& gradebook) TBA

CLASS SCHEDULE:

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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<tbody>
<tr>
<td></td>
<td>Lecture</td>
<td>10:00-11:30</td>
<td></td>
<td>Lecture</td>
<td>8:30-10:00</td>
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<td>DGD (starts</td>
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<td>Sept 17th)</td>
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<td>5:30-7:00 PM</td>
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COURSE EVALUATION:

Your mark is based on two parts: the lecture (80%) and the laboratory portion (20%).

LAB (20%)

Lab Coordinator: Dr. Rashmi Venkateswaran, vrashmi@uottawa.ca

The lab component of CHM 1301/1311 will be completely online for the Fall 2020 semester. It will count for 20% of your final course grade. At any time, if you have any questions regarding the lab component of CHM 1301/1311, please contact Dr. Rashmi Venkateswaran at vrashmi@uottawa.ca

For your lab schedule (including lab tutorials) and other details, consult the Gen Chem Lab website on Brightspace. You can download and print what you want/need at your own convenience.

Lecture Portion (80%)

The lecture portion counts for the remaining 80% of your final grade, but its calculation is the result of a few components. Since you may “opt-out” of the online assignments if you so desire, there are two possible evaluation schemes:

<table>
<thead>
<tr>
<th></th>
<th>With homework</th>
<th>Without homework</th>
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<tbody>
<tr>
<td>Post-chapter On-line</td>
<td>15%</td>
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<tr>
<td>Homework</td>
<td></td>
<td></td>
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<tr>
<td>(Assignment on Wiley+)</td>
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<tr>
<td>Midterm test (on Wiley+ (Oct 2nd 6:00 – 8:00 pm)</td>
<td>10%</td>
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<tr>
<td>Mid 1 (Oct 21 class time on the program covered from the beginning to the midterm date.)</td>
<td>10%</td>
<td>10%</td>
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<tr>
<td>Mid 2 (Nov 25 class time on the program from the 1st midterm to 2nd midterm date)</td>
<td>15%</td>
<td>15%</td>
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<tr>
<td>Final Exam (TBA on the entire program)</td>
<td>30%</td>
<td>55%</td>
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</table>

Post-Chapter ON-LINE HOMEWORK Wiley plus (15%)

A total of 11 assignments, which will be worth up to 15% of your final mark, will be made available online at the W+ website (see below).

When an assignment is announced, login to your account at the Wiley+ website. You do not have to complete the whole assignment in one sitting; you can save your work at any point. Only: BE AWARE OF THE DUE DATE posted on the assignment.
Each assignment will give you a score of either zero or 1 depending on whether you scored less or more than 50%. (50% will translate into a zero). These marks will be reported on the Bright Space gradebook after about one week. Of the total 11 assignments, your best 10 will be counted at the end of the semester to give you the component mark from zero to a maximum of 15%.

**MIDTERM W+ test (10%)**

This a test with the same format of the two class midterms but it will be done within a longer time interval and outside class time. It will be administered via the Wiley+ similarly to the weekly assignments.

**NO PROCTORING!!**

**Two MIDTERMS class time (10% and 15%)**

Both midterms will appear at the due time as a .doc document at the course webpage

https://mysite.science.uottawa.ca/sgambarotta/content/chm1311-f-2020

**WITH PROCTORING!!**

You will have to:
1. download it,
2. type your name and student#
3. type in your solutions and
4. email it back as a .pdf and NOT LATER than the 90 minutes due date. More precise instructions will be given.

**FINAL EXAM (either 30% or 55% if you opt out the W+)**

Comprehensive of all the course subject matter. Timing and format (on line or in presence) will be decided by the Faculty.

**DGDs (0%) begin September 16th on line**

Participation to DGD will give you no mark. However, it will be a great studying moment. End of the chapter exercises from your textbook will be treated by a TA. The list of these exercises will be posted in advance to allow you decide whether or not you want to attend the DGD. The DGD is supposed to be as interactive as possible for your maximum benefit. The TA will NOT entertain questions relating to your lab reports – if you have questions or need help with lab reports, talk to your lab demonstrator or go to the lab tutorials (that’s what they are for!).
1. Go to the your BrightSpace account
2. Search for CHM1311(F) -DGD
3. Click on ZOOM
4. Chose the day’s DGD (will be recorded for your convenience on the “cloud”).
RECOMMENDED TEXT (see below for the opting-out option):

The text that we will be using as an official reference for this course is Chemistry, Canadian Edition by Olmsted, Williams, and Burk. A few hard copies will be on reserve at the bookstore. However, you can conveniently purchase the W+ system (89$), which will give you, in addition to testing, practicing and assignments, also the e-textbook. The publisher gives you the option, for additional cost (10$), to purchase a permanent license for e-textbook. Purchase of e-text and license can be done online with your credit card.

YOUR ACCESS to WILEYPLUS: www.wileyplus.com

To register students can go to www.wileyplus.com and enter the below Course ID.

CHM1311 F00 Course ID: A23359 Prof. Sandro Gambarotta. A W+ flyer is posted on the course webpage. https://mysite.science.uottawa.ca/sgambarotta/content/chm1311-f-2020

OPTING OUT THE WILEY+ (and using alternative textbooks):

You are allowed to opt out the W+ with no penalty to your final course mark. The marking scheme will obviously change (see above) and you must notify me by email no later than September 30th.

COURSE SYLLABUS:

Lecture presentations will be recorded on the ZOOM cloud. Minor modifications may be possible

<table>
<thead>
<tr>
<th>Topic</th>
<th>Ch</th>
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<tbody>
<tr>
<td>Brief Introduction + Stoichiometry and Equations</td>
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<tr>
<td>Stoichiometry and Equations</td>
<td>1</td>
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<td>Stoichiometry and Equations . Redox</td>
<td>1 &amp; 17</td>
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<tr>
<td>Atoms and Light.</td>
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<tr>
<td>Atoms and Light.</td>
<td>5</td>
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<tr>
<td>Chemical Bonding.</td>
<td>6</td>
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<tr>
<td>Chemical bonding</td>
<td>7</td>
</tr>
<tr>
<td>Home midterm (Oct 2nd 6:00 - 8:00 pm)</td>
<td>2</td>
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<tr>
<td>The Behaviour of Gases</td>
<td>2</td>
</tr>
<tr>
<td>The Behaviour of Gases</td>
<td>2</td>
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<tr>
<td>Principles of Chemical Equilibrium</td>
<td>14</td>
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<tr>
<td>Principles of Chemical Equilibrium</td>
<td>14</td>
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</tbody>
</table>
Kinetics: Mechanisms and Rates of Reactions  Ch 13
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1st MIDTERM class time (Oct 21st)
Reading week
Kinetics: Mechanisms and Rates of Reactions  Ch 13
Acid-Base Equilibria  Ch 15
Acid-Base Equilibria  Ch 15
Energy and Thermochemistry  Ch 3
Energy and Thermochemistry  Ch 3

2nd Midterm class time (Nov 25th)
Energy and Thermochemistry  Ch 12
Applications of Aqueous Equilibria (Buffers and Solubility)  Ch 16
Applications of Aqueous Equilibria (Buffers and Solubility)  Ch 16