Instructor: Dr. Jan Cammack
Office: YVC 1-312A
Email = jan.cammack@Chemeketa.edu
Mail box available at YVC front desk

Times and Places: Yamhill Valley Chemeketa
Lecture: (CRN 62770), Recitation: (CRN 62771), & Lab: (CRN 62772)
Tue & Thur 5:30-8:20 pm; YVC Rooms 1-300 and 301

Course Description:
This course is a one-term survey of the basics of General, Organic, and Biochemistry introducing students to the chemical principles needed to understand the function of living organisms. It is designed for persons without previous background in chemistry and is intended to stand alone as a minimum prerequisite for students entering beginning Anatomy and Physiology courses.

Prerequisite(s): Algebra equivalent to MTH 095 or higher.

Required Text(s) and supplies:
- Mastering Chemistry online homework to accompany Timberlake, Karen C., An Introduction to General, Organic, & Biological Chemistry, 13th Ed.
- Cammack, Laboratory for General, Organic & Biochemistry, Chemeketa Bookstore handouts
- Laboratory Safety goggles. (Regular safety glasses are not acceptable.)
- A calculator containing logarithm functions
- Access to internet quizzes and resources

Expectations and Requirements:
Attendance:
- Class attendance is expected. Just as you would think it foolish to dress up for an evening out, order an expensive dinner, pay for it, and then walk out without eating, it is foolish to come to college, pay tuition, and then not attend class. If you must miss class you alone are responsible to get notes, announcements, and any missed information from a classmate.
- Missed laboratories may not be made up however it may be possible to arrange in advance to attend another lab section for a given week. The lowest lab score for the term will be dropped.
Cell Phones & Mobile Devices:
- Chemeketa Community College is committed to providing a quality learning environment. All cell phones and mobile devices must be placed in a non-audible mode while in classrooms, computer labs, the library, study centers, and testing areas. Cell phones and mobile devices must be used outside these facilities.

Homework and Assignments:
- Online homework problems will be assigned from each chapter of the text to be completed via the Mastering Chemistry access. By doing the problems online immediate feedback is possible enabling you to practice your chemistry and be corrected in a timely manner. Once you have purchased the Mastering chemistry access code either with the text book or directly from the publisher (http://www.masteringchemistry.com/) the course you need to enter is called CH110 Foundations of General, Organic, and Biochemistry W2020 YVC TTH
And our course identification is CH110CAMMACKW2020YVCTTH
- Occasionally a page of written homework may be assigned to give practice showing calculations, writing equations, and drawing structures in a non-digital format.

Quizzes:
- Weekly quizzes will be given over lecture material and homework problems.
  - Quizzes are found under the “Online Quizzes” link on the blackboard 9.1 home page.
  - Quizzes are to be taken after the homework for that chapter is completed.
  - Quizzes questions are randomly generated from a question bank.
  - Quizzes may be taken up to 3 times with the highest score being recorded.
    - Late quizzes may be taken only 1 time.
  - A required multi-chapter review quiz will be given at the end of the term to help prepare you for the comprehensive final exam.
- The lowest quiz score for the term will be dropped in the final grading.

Exams:
There will be three exams for the course.
- Exams 1 and 2 will be taken in class however there may be circumstances where exams may be given outside of class time by appointment in one of Chemeketa’s testing centers:
  - Appointments for the Yamhill testing center need to be made in advance either
    - In person in YVC room 1-203,
    - by phone at 503-316-3240
    - or by email at yamhilltesting@chemeketa.edu.
  - YVC testing center is open for exams
    - Mondays & Thursdays: 9:00 am – 4 pm
    - Tuesdays & Wednesdays: 1:00 – 7:00 pm
When making an appointment, please have the following information ready…:
- Your name ________
- Your instructor’s name Cammack
- The course number is CH110
- The test number is _______ (ie. midterm Exam 1)
- Your phone number _______
- Be sure and bring Photo ID to the Testing center Exam

- Exam 3 will be given during final exam week in the regular lecture classroom. It will cover previously untested material and part of the exam will be a comprehensive final.
Laboratory:

- Each week there will be two hours of hands-on experimentation in which we will observe, practice, and experience chemical reactions and procedures. **As this is a laboratory course at least 70% of the labs must be completed to pass even if the total course score indicates a passing grade.**
- Most of the experimental procedures will be done in partners however each individual is responsible for their own report and lab assignments.
- The labs should be read and any advanced study (Prelab) questions included with the laboratory exercise should be answered before you come to lab and handed in before lab begins. *(The instructor reserves the right to give prelab quizzes over the prelab assignment.)*
- Each lab will have a report sheet that is due at the conclusion of each project.
- Each experiment has a series of related exercises following the report sheets. These problems, along with the experimental data and questions, are to be stapled and turned in with the lab at the end of each lab period or at least by the following class day.
- **Late laboratory reports will not be accepted once graded lab reports for that lab have been returned to students. Late labs that are accepted will be penalized 10% per class day late.**
- The lowest laboratory score for the term will be dropped.

Grading:

<table>
<thead>
<tr>
<th>% Weight for each category</th>
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<tbody>
<tr>
<td><strong>Homework</strong></td>
<td>10 %</td>
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<tr>
<td><strong>Quizzes</strong></td>
<td>10 %</td>
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<tr>
<td><strong>Exams</strong></td>
<td>55 %</td>
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<tr>
<td><strong>Lab</strong></td>
<td>25 %</td>
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<td></td>
<td>100%</td>
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Your personal grades can be updated for viewing online. Your instructor will give directions on how to access your scores.

Extra Credit Policy:

- The answer is most often “no” and here are the reasons why:
  - Your grade needs to be a reflection of the mastery of the subject. When a future employer looks at your college transcripts it should reflect:
    - how well you mastered the subject and
    - not how many extra tasks you performed or hoops you jumped through.
  - With occasional exceptions most students are fairly consistent in the quality of work they hand in. It is my opinion that a student who is consistently doing “C” quality work should not be given a “B” for simply doing more “C” work.
  - You will learn more (and so answer more exam questions correctly and therefore get a better grade) by spending a few extra hours studying than you would if you had spent those extra hours doing an extra credit project.
  - There may occasionally be a few extra points on an exam.

If there are 102 points possible on an exam I still usually round the total to 100 so theoretically you could earn a score of 102% when that happens.
**Ground rules for Course Conduct:**

**Integrity:**

The presentation of another individual’s work as one’s own or the act of seeking unfair academic advantage through cheating, plagiarism or other dishonest means are violations of the college’s “Student Rights and Responsibilities.” See [http://www.chemeketa.edu/aboutchemeketa/collegelife/honesty/policy.html](http://www.chemeketa.edu/aboutchemeketa/collegelife/honesty/policy.html) for the following and further details.

Violations of academic honesty include but are not limited to the following:

- **Plagiarism:** Presenting someone else’s words, ideas, artistry, product or data as one’s own
- **Collusion/Inappropriate Assistance:** Helping another commit an act of academic dishonesty such as knowingly or negligently allowing work to be used by others.
- **Cheating:** An act of deceit, fraud, distortion of truth or improper use of another person’s effort to obtain an educational advantage
- **Fabrication/Falsification/Alteration:** Intentional misrepresentation, invention, exaggeration or alteration of information or data, whether written, verbalized or demonstrated
- **Unauthorized Multiple Submission:** Using any work previously submitted for credit without prior permission of instructor
- **Sabotage and Tampering:** Intentional altering or interfering with documents or other student’s work so depriving others of academic resources

**Practicing Academic Honesty:**

You are expected to do your own work in this class. Collaborating on assignments is acceptable only to a point. There is often confusion between where collaboration ends and cheating begins. I recommend the following procedure to eliminate this confusion.

1. First, do as much of your work (homework, lab reports) by yourself before consulting a classmate. Come up with as many answers, in your own words as you can.
2. Then, and only then, you may consult with a classmate. Compare your answers and see where you differ. You may find you have similar answers, but they will likely be identical. In this case you are likely on the right track and you can turn in your own original work. If however, you find yourselves with very different, or conflicting, answers you should discuss your discrepancies (without pencils in your hands) and try to come to a general agreement as to the “right” answer.
3. Then pick up your pencil and without looking at another’s paper or speaking out loud put your answers in your own original work on your own paper.

**Course Policy for Integrity Violations:**

It is expected that students in this course will act with honesty and integrity.

- Violations of trust will result in automatic grade penalties such as the following:
  - If answers appear “too close” (beyond the probability that they were independently derived or as a result of witnessing the same process or hearing the same explanation) then the following steps will be taken:
    1. **1st offense:** Both parties (the copier and the one copied from) will receive zero credit for that answer but not for the entire assignment.
    2. **2nd offense:** The entire assignment score will be split between the persons involved. (For example: if 2 people have an answer that looks too similar then a 100 point assignment will be divided 50:50 regardless of who did the work or whether only part of the assignment was copied.)
    3. **3rd offense:** All students involved (even those that did the work) get zeros for entire assignment.
  - **Continued violations:** The dean or appropriate academic administrator is involved and institutional procedures will be initiated for
    o dismissal from the course or
    o dismissal from the college as indicated in the Chemeketa handbook of rights and responsibilities.

**Institutional Policies**

**Diversity**

We are a college community enriched by the diversity of our students, staff, and community members. Each individual and group has the potential to contribute in our learning environment. Each has dignity. To diminish the dignity of one is to diminish the dignity of us all.

**Accommodations**

Accommodations are collaborative efforts between students, faculty, and Student Accessibility Services. If you have already been approved for accommodations and requested them for this term, both you and I receive a Letter of Accommodation by e-mail. It is important that we discuss the accommodations as early in the term as possible. Students who believe they are eligible for accommodations but who have not yet obtained approval through Student Accessibility Services should connect with Kathryn Ellis by calling 503.399.5219, stopping at the Student Services Desk or emailing her at kathryn.ellis@chemeketa.edu.

**Affirmative Action**

It is the policy of Chemeketa Community College and its Board that there will be no discrimination or harassment on the basis of race, religion, color, sex, age, national origin, ethnic origin, sexual orientation, gender identity, marital status, citizenship status, pregnancy and related conditions, family relationship, veteran’s status, disabilities and tobacco usage in any educational programs, activities or employment. Persons having questions about equal opportunity/affirmative action should contact the Affirmative Action Officer at 4000 Lancaster Dr. NE, Salem, Oregon 97309-7070, or call 503.399.4784. To request this publication in an alternative format, please call 503.399.5219.

**Advising and Counseling**

Advising and counseling is available for any Chemeketa student and is required for all first year, degree or certificate seeking students. Meeting with an advisor can help clarify your academic and life goals, choose classes that prepared you for a career, and/or identify transfer options. Instructors are also available to discuss class, degree, and career options. Appointments are available Monday – Thursday 8 am – 7 pm and Friday 8 am – 5 pm. Appointments may be made online through ChemeketNEN in MyChemeketa, or by phone at 503.399.5219, or in person at our Student Services desk in Building 1.

**Student Services and Resources (resources, websites, College services for student success)**

- Library & Computer Lab: YVC, Bldg. 1, Rm. 200, 503.316.3238. Mon.–Thurs. 8am-7pm, Fri 8am-3pm
- Library & Student Computer Center: Salem Campus, Bldg. 9, Rm. 200, 503.399.5043
- Testing Center: YVC, Building 1, Rm. 203, 503.316.3240. Mon.-Thurs. 9am-4pm, Tues./Wed. 1pm-7pm
- Tutoring Services: YVC, Bldg. 1, Rm. 200, 503.316.3238. Monday – Thursday 8am-7pm, Friday 8am-3pm
- Tutoring Services: Salem Campus, Bldg. 2, Rm. 210, 503.399.5190
- Math Learning Center: Salem Campus, Bldg. 3, Rm. 277, 503.399.3998
- Veteran’s Services: Salem Campus, Bldg. 2/200, 503.399.5004
- Chemeketa Online FAQs: Salem Campus, Bldg. 9, Rm. 106, 503.399.7879
- Study Skills Center: Salem Campus, Bldg. 2, Rm. 212, 503.399.5162
- Writing Center: Salem Campus, Bldg. 9/Library, 503.399.7179
# Tentative Lecture Schedule

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<thead>
<tr>
<th>Week</th>
<th>Chapter:</th>
<th>Lecture Topic:</th>
<th>Assignments:</th>
<th>Tentative Lab Schedule</th>
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<tr>
<td>1 Jan 6-10</td>
<td>2</td>
<td>Chemistry &amp; Measurements</td>
<td>Due 1/9&lt;br&gt;Web Quiz 0&lt;br&gt;MC Intro to MC&lt;br&gt;Due 1/14&lt;br&gt;MC 2&lt;br&gt;MC 3&lt;br&gt;Web Quiz 2.3</td>
<td>Lab Intro Pages&lt;br&gt;Lab 1: Intro To The Laboratory, Part 1 Safety</td>
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<td>3</td>
<td>Matter &amp; Energy</td>
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<td>Lab 1: Part 2 Separation of Salt &amp; Sand</td>
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<td>2 Jan 13-17</td>
<td>4</td>
<td>Atoms and Elements</td>
<td>Due 1/16&lt;br&gt;MC 4&lt;br&gt;Due 1/21&lt;br&gt;MC 5&lt;br&gt;Web Quiz 4.5</td>
<td>Lab 2: Flames &amp; Atomic Spectra I-III Flames</td>
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<td>(Periodic Table)</td>
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<td>Lab 2: IV-V Atomic Spectra</td>
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<td>(Element Song)</td>
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<td>5</td>
<td>Nuclear Chemistry</td>
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<td>3 Jan 20-24</td>
<td>6</td>
<td>Ionic &amp; Molecular Compounds</td>
<td>Due 1/23&lt;br&gt;MC 6&lt;br&gt;Due 1/28 Before Exam 1&lt;br&gt;MC 7&lt;br&gt;Web Quiz 6.7</td>
<td>Lab 3A: Compounds &amp; Formulas Worksheet&lt;br&gt;Lab 3B: Chemical Reactions II Reactions</td>
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<td>(Ion Names &amp; Charges)</td>
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<td>4 Jan 27-31</td>
<td>7</td>
<td>Chemical Quantities and Reactions</td>
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<td>Exam 1; Chpts 2-7 Tue 1/28</td>
<td>Due 2/4&lt;br&gt;MC 8&lt;br&gt;Web Quiz 8</td>
<td>Lab 3B: I, III: Metals w Acids &amp; Conservation of mass&lt;br&gt;Lab 4 Gases</td>
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<td>8</td>
<td>Gases</td>
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<td>Lab 5: Acids &amp; Bases I-II Buffers &amp; CO₂&lt;br&gt;Lab 5: III Indicators &amp; Reactions</td>
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<td>5 Feb 3-7</td>
<td>9</td>
<td>Solutions</td>
<td>Due Thu 2/6&lt;br&gt;MC 9&lt;br&gt;Web Quiz 9&lt;br&gt;Due 2/11&lt;br&gt;MC 10&lt;br&gt;Web Quiz 10</td>
<td>Lab 7B: Hydrocarbons: Worksheet&lt;br&gt;Lab 7A: Organic Compounds I-II Props Rxns&lt;br&gt;Lab 7A: III Functional Groups</td>
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<td>10</td>
<td>Acids &amp; Bases &amp; Equilibrium</td>
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<td>6 Feb 10-14</td>
<td>11</td>
<td>Intro to Organic Chemistry: Hydrocarbons</td>
<td>Due Thu 2/13&lt;br&gt;MC 11&lt;br&gt;Web Quiz 11&lt;br&gt;Due 2/18 Before Exam 2&lt;br&gt;MC 12&lt;br&gt;Web Quiz 12</td>
<td>Lab 8: Carbohydrates II, V-VI Oxidation, Dehydration&lt;br&gt;Lab 8: I-VI Taste, Absorption, Hydrolysis, &amp; I₂</td>
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<td>12</td>
<td>Alcohols, Thiols, Ethers, Aldehydes, Ketones</td>
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<td>Lab 9: Esters &amp; Soap I,IIA Esters&lt;br&gt;Lab 9: IIIB Soap</td>
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<td>Exam 2; Chpts 8-12 Tue 2/18</td>
<td>Due 2/20&lt;br&gt;MC 13.1&lt;br&gt;Due 2/25&lt;br&gt;MC 13&lt;br&gt;Web Quiz 13</td>
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<tr>
<td>7 Feb 17-21</td>
<td>14A</td>
<td>Carboxylic Acids, Esters</td>
<td>Due 2/27&lt;br&gt;MC 14A&lt;br&gt;Due 3/3&lt;br&gt;MC 15&lt;br&gt;Web Quiz 14A, 15</td>
<td>Lab 11: Part B Strawberry DNA Lab Check-out; Clean-up</td>
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<td>15</td>
<td>Lipids</td>
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<td>8 Feb 24-28</td>
<td>14B</td>
<td>Amines, &amp; Amides</td>
<td>Due 3/5&lt;br&gt;MC 14B&lt;br&gt;Due 3/10&lt;br&gt;MC 16A</td>
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<td>16</td>
<td>Amino Acids, Proteins, &amp; Enzymes</td>
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<td>9 Mar 2-6</td>
<td>17</td>
<td>Nucleic Acids &amp; Protein Synthesis</td>
<td>Due 3/12&lt;br&gt;MC 16B&lt;br&gt;Web Quiz 14B,16&lt;br&gt;Due 3/17 before Exam&lt;br&gt;MC 17&lt;br&gt;Web Quiz Review</td>
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<tr>
<td>10 Mar 9-13</td>
<td>Exam 3; Chapter 13-17 &amp; Comprehensive</td>
<td>Tuesday 3/17; 5:30 pm (YVC 1-301)</td>
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