

## Parkland College

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Chemistry Courses

Natural Sciences Courses

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2015

# Chemistry 106 Chemistry for Health Professions Online Fall 2015

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## **CHE 106 Online Syllabus**

### **Contacting Your Instructors:**

For the Fall 2015 semester, the course will be team taught by Laura Sonnichsen, Kristy Jeans, Philip Rabe & Dave Wilson..

CHE 106 Online is co-ordinated by Laura Sonnichsen & Sheryl Drake.

If you have questions about enrolling in the course, contact Laura Sonnichsen. For all other questions, contact the instructor in charge of that portion of the course.

See below for contact information.

#### **Laura Sonnichsen**

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Course Enrollment

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**Fall 2015 Office Hours**

Live real-time office hours are held in the live office hour room in Cobra. Note that times are Central Time Zone!!!

Laura will hold one scheduled online office hour per week in the chat room in Cobra named "Instructor Office Hours":

Monday, 10:00 - 10:50 AM (CENTRAL TIME ZONE)

Philip will hold one scheduled online office hour per week in the chat room in Cobra named "Instructor Office Hours":

Tuesday, 4:30 - 5:30 PM (CENTRAL TIME ZONE)

Kristy will hold one scheduled online office hour per week in the chat room in Cobra named "Instructor Office Hours":

Thursday, 6:00 - 6:50 PM (CENTRAL TIME ZONE)

Dave will hold one scheduled online office hour per week in the chat room in Cobra named "Instructor Office Hours":

Sunday, 8:00 - 8:50 PM (CENTRAL TIME ZONE)

Chats may also be by appointment - just email your instructor!

## **Required Materials:**

We will be using the newest edition of the textbook, starting this Fall 2014 semester. That edition is the 12th edition. Make sure you have the correct edition of the textbook!

Chemistry: An Introduction to General, Organic, and Biological Chemistry and Mastering Chemistry Access Card Package, Custom Edition for Parkland College

Karen C. Timberlake, Emeritus, Los Angeles Valley College

ISBN: 9780321933850

Publisher: Pearson Prentice Hall

Copyright: 2015

Format: 3-Hole Punch; 744 pp

Comes with Mastering Chemistry Access Code!

This is the Parkland Custom Edition

**OR**

Karen C. Timberlake, Emeritus, Los Angeles Valley College

ISBN: 9780321907141

Publisher: Pearson Prentice Hall

Copyright: 2015

Format: Cloth Bound; 744 pp

Comes with Mastering Chemistry Access Code!

This is the 12th Edition, which is OK, also.

This is the required text package. It should contain both the book AND an access code for Mastering Chemistry. If you do not wish to purchase the text through the Parkland College Bookstore, you may purchase the 12th edition WITH access to Mastering Chemistry (ISBN: 9780321907141). If you are purchasing a used book, you may need to purchase access to Mastering Chemistry separately. You can do so by contacting the publisher at <http://www.masteringchemistry.com/site/index.html> (get the Mastering Chemistry for the 12th edition of the book). It is important to make sure that you purchase the package with the correct ISBN number. Please contact your instructor if you need any assistance.

Important note on the textbook: We are using the current edition - the 12h edition! Make sure that you get the Custom OR the 12th edition, and make sure that the MasteringChemistry you purchase (if it doesn't come with the book) is the 12th edition.

Also required are two pre-made lab kits. The first is one called "Patriotic Colors" and the other is called "Polarity of Water". These are only available through the Parkland College Bookstore. Note that these kits are non-returnable even if they are unused. You are also strongly urged to purchase a pair of lab safety glasses for use with these "Patriotic Color" kit.

Finally, there are two required lab supply kits. These kits are only available through the Parkland College Bookstore. Note that these kits are non-returnable even if it is unused. These kits will contain all the lab supplies (glassware, balances, pipettes, etc.) that you will need this semester. Chemicals may need to be purchased.

There is one optional purchase. You may choose to purchase the accompanying Study Guide and Selected Solutions Manual. This text provides fully worked out solutions to the odd questions in the text as well as study hints. The Selected Solutions Manual is available through the Parkland Bookstore.

The only other requirement (other than a reliable computer with internet access!) for the course is access to a kitchen. This is an IAI approved laboratory course, so you will be performing a number of laboratories at home. Effort has been made to choose labs that require few materials beyond that found in a normal kitchen, but there will be times when you will have to obtain additional supplies (for instance, chicken bones or red cabbage). You are strongly encouraged to preview lab assignments 2 - 3 weeks before they are due so that you have ample time to obtain all needed materials.

### **How You Will Be Evaluated:**

Due Dates for all items are in the Cobra calendar!!!

Quizzes: 29.4% of the final grade (30 points each = 330 points total)

It is our philosophy that since this is a course at a distance, frequent evaluation is a means to encourage students to keep up with course work and to interact often with their instructor and with other classmates. Accordingly, evaluations in the form of quizzes will be due after the completion of just about every chapter we cover. The quizzes are available in Cobra, a course management platform (click here if you have not yet activated your Cobra account). The course calendar in Cobra gives the last date that a quiz (any take) can be taken. You need not wait for that date; you may take quizzes whenever you are ready.

Each quiz can be taken twice, and the average of your two scores will count for your quiz grade. All quizzes are available on the first day of class - you do not have to wait until the due date to take a given quiz. In fact, you can work ahead if you wish! we recommend taking a quiz at least 24 hours before it closes so that you have the opportunity to study some more and review your first quiz if you wish to improve your score by taking the quiz again. If you are pleased with your first quiz score, you do not have to take it again. The re-take option is entirely your choice, but in order to be utilized, both takes must be completed by the date given in the Cobra course calendar.

All quizzes (except Quiz 10) contain at least one essay question. For this reason, feedback on your quiz will not be instant because we will have to grade the essay by hand. 95% of the time we will grade quizzes within 24 hours of your taking them. But this is another reason to try not to wait until very last minute to take quizzes.

Since you take the quizzes outside of a traditional classroom, we do not prohibit the use of your text and other resources, but your answers must be in your own words. However, each quiz has a time limit associated with it and it is mandatory that you complete the quiz in the given time allowance. Quizzes will automatically be submitted when the time limit is up. Your lowest scoring quiz will be dropped.

Each chapter begins with a "Memo From the Clinic" on the main course page. Each memo in turn is associated with chapter objectives. Use these chapter objectives to determine which parts of each chapter will be stressed in quizzes and other assessments.

The first nine quizzes correspond to the first nine chapters. The tenth quiz will cover the four organic chapters, and the eleventh and twelfth quizzes will cover two chapters of biochemistry each.

Labs: 25% of the final grade (40 points each = 280 points total)

As noted before, CHE 106-940 is an IAI approved laboratory course; therefore, the lab component is a sizable and important part of the course. This makes sense after all - chemistry is a hands on discipline...much like the health professions!!! While experiments done at home in a kitchen or over the internet may not seem to be as sophisticated as those done in a chemistry lab, our experience has been that students think more deeply and extract more value from home labs than most students do on campus. You are expected to complete all labs associated with the course and prepare reports as directed in each lab. Labs that are not completed will be recorded as zeros; students who accumulate more than two zeros will be failed. The lowest scoring lab will be dropped.

Capstone Project: 9.8% of the final grade (110 points)

In order to augment class instruction, you will do a project that integrates topics across Modules and create a written report on an aspect of chemistry in the health professions.

[Click here for detailed information about the Capstone Project](#)

### Student-Student Interactions

One of the challenges that an online instructor faces is to involve all students in learning in order to create a true community of learners, much like what can be done in a traditional classroom. In this course, this community will be created in two ways: ChemActivities and discussion forums.

ChemActivities: 5% of the final grade (14 points each = 56 points total)

For each assignment, you will be working in a group of 3-5 students. The groups will be assigned initially, but may change over the course of the semester. A ChemActivity is a worksheet that will be discussed and filled out as a group of a least 3 students. All ChemActivity group discussions must be held in the ChemActivity chat room. Worksheets will not be graded for correctness, but on completion. There are eight total ChemActivities; the four highest ChemActivity scores will be kept.

[Click here for detailed information about ChemActivities](#)

Discussion Forums: 5.4% of the final grade (6 points each = 60 points total)

As you may have already noticed, Cobra has discussion forums: this is where you will introduce yourself in the "Introduce Yourself" forum. For this course, you will be asked to use the Cobra discussion forums in several ways.

In the weeks ahead, topics will be posted for discussion in discussion forums corresponding to the appropriate modules. Each discussion will have specific directions; it will be made clear how you can earn full credit for each discussion assignment. There are sixteen total discussion forums; the ten highest scores will be kept.

Online Homework: 5.4% of the final grade (6 points each = 60 points total)

As in most science and math courses, the surest way to succeed is by practicing your problem solving skills. In order to facilitate this, there is a required online homework component associated with each module of the course. You will be asked to go to the online homework website, and complete the assigned problems by the due date given in the Cobra calendar.

Online homework problems are graded on a mastery basis. You will receive credit when you complete the problem correctly. However, you may attempt each problem multiple times, with only small deductions for wrong attempts and hints. After each attempt, the computer program will let you know if you did the problem correctly or not, and provide hints on how to solve these types of problems. More information on how each problem is graded is available at the online homework web site. Your two lowest scoring homework assignments will be dropped.

Final Exam: 20% of the final grade (224 points)

What's a course without a final exam? The final exam will be administered in Cobra and will be cumulative. Unlike the quizzes, you will ONLY be able to take the final exam once. However, the final exam will not have any essay questions on it. The final exam will not be available until the end of the semester (during Final Exam week – See Cobra Calendar for exact dates). If you need to take it earlier, contact your instructor in advance.

Grading Scale  
Percentage  
Points Earned  
Letter Grade

90.0 - 100%  
a minimum of 1008 - 1120  
A

80.0 %  
a minimum of 896  
B

70.0%  
a minimum of 784  
C

60.0%  
a minimum of 672  
D

below 60%  
less than 672  
F

You will also earn an F if you receive more than two zeros on lab reports.

#### Academic Honesty/Plagiarism

As in all courses, it is very important that your work be your work. Therefore, the following policies on academic honesty and plagiarism apply to this course:

Quizzes: All answers must be in your own words. Any question that is not answered in your own words will cause you to receive a zero for the question.

Labs, Discussions & the Capstone Project: All answers must be in your own words. If you work with a lab partner, your data (numbers) may be the same, but all written responses must be done individually. If you obtain information from any outside source, it must be properly cited, and the information should be paraphrased, not directly quoted. Any question that is not answered in your own words or that is not properly cited will cause you to receive a zero for the question.



## Due Dates/ Working Ahead / Late Work

**Due Dates:** All assignments in the course are due by 11:55 PM Central Time on the date posted on the Cobra calendar.

**Working Ahead:** You are welcome to work ahead as much as you'd like in the course. The due dates posted in the Cobra calendar are final due dates. This policy exists because it is not uncommon for students to have known personal and professional travel dates already set during a semester.

### Late Work:

Quizzes, ChemActivities, Discussions, and Online Homework can not be made up for any reason. These are all available well ahead of the final due date. In addition, at least one score of each is dropped, so if you miss one you will not be penalized.

Final exam make-ups can be arranged if extenuating circumstances arise and are communicated to the instructor before the final examination due date.

**Labs and the Organic Chemistry Project:** Labs and the project may be graded any moment after the due date posted on the Cobra calendar has passed. However, we accept late labs and projects for full credit consideration as long as we have not begun to return graded versions of the lab to fellow students. Once we have returned a single lab or project, we will not accept late labs/project and the missing lab/project will be given the grade of zero. Please note that it is a sometimes a very risky proposition to let the due date pass. You can turn in a partial lab/project before the due date, and we will accept revisions up until we start grading. The last submission before grading is the one that will count.

## Office of Disability Services

If you believe you have a disability for which you may need an academic accommodation (e.g. an alternate testing environment, use of assistive technology or other classroom assistance), please contact: Cathy Robinson, Room U260, 217-353-2082, [crobinson@parkland.edu](mailto:crobinson@parkland.edu)

## Technical Assistance & Resources

Parkland College offers assistance for technical questions and issues regarding Email, Cobra, My.Parkland and Wi-Fi access. For help, contact:

Technical Service Desk  
A184 217-353-3333  
[techhelp@parkland.edu](mailto:techhelp@parkland.edu)

## Course Withdrawal Policy

Around the sixth day of a full semester class (or its equivalent for a class of shorter duration), we are required to assess your attendance. If you have not attended to that point (completed the Course Entry Activities), you will be dropped with no refund of tuition and fees. After this census date, you should not plan on an instructor withdrawal if you want to withdraw from the course. You are ultimately responsible for your own withdrawal by the withdrawal date. Non-attendance after the census date will result in an F if you don't withdraw yourself.

## Parkland Policies & Services

For a more complete listing of Parkland Policies & Service (including more on Academic Honesty and information on places to get help with course work), please [click here](#).

You've read the syllabus, but have you activated your Cobra account? If you answered no, please [click here now](#).