

# North Mecklenburg High School

## Course Syllabus

### DP IB Chemistry II

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#### **Teacher Information**

Name: Lauren Peace

Room: J208

Tutoring: M, T, Th 2:15-3:30

Email: lauren1.peace@cms.k12.nc.us

Weebly: peacechem.weebly.com

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“Chemistry is an experimental science that combines academic study with the acquisition of practical and investigational skills.” This class will provide opportunities for hands on activities and cooperative learning. A majority of this class will be inquiry (learning to think on your own, problem solving, inferring, and drawing conclusions) and reading based. Students will engage in labs, interactive group simulations, and strategies to be successful in this class. This course will allow you to begin to connect your schoolwork with the real world.

#### **Required Materials:**

- 1 ½” Binder
- Lined Loose Leaf Paper
- Ream of Copy Paper
- Graph Paper Notebook
- Black/Blue Pens
- Pencils

#### **Course Description:**

The IB course guide provides a complete outline to the IB course. It is expected that every student will consult this guide regularly with each unit. The IB guide outlines what each student is expected to learn within this course. It is available on the weebly page.

#### **Provided Textbook:**

Owen, Steve. 2014. *Chemistry for the IB Diploma*. 2<sup>nd</sup> ed. Update. Cambridge University Press

#### **Suggested Textbook:**

*IB Chemistry Course Book: Oxford IB Diploma Programme*. Brian Murphy, Gary Horner, David Tarcy, and Sergey Bylikin

#### **Classwork:**

Students are required to take notes along with lecture. Powerpoints can be found on the weebly page but it is required that students take notes while in class. Notebook checks will occur if deemed necessary. Supplemental notes and resources can be found on the weebly.

**Homework:**

Students should review material each night by reading over notes, writing down any questions/gaps in notes and completing any assignments from class. Homework is collected at the **BEGINNING of EACH CLASS**. Homework turned in after that point will be graded as *LATE*. Homework problems must be completed showing complete work/steps along with 2-3 sentences of valid reasoning. Both parts must be completed to receive credit.

**Attendance and Late/Missing Work:**

Students are expected to be in class on a regular basis. It is the student's responsibility to find out missed assignments and announcements from the instructor. Students who are present on the day an assignment is made, or if an absence is unexcused, **late work will be penalized by 50%**. Half credit will be given up to 5 school days after the original due date. **Beyond 5 days, late work will be accepted with feedback provided but no credit will be given.**

**Grading Policy:**

| <u>Classwork/Informal Assessments/Homework</u><br><i>30% of quarter grade</i>   | <u>Formal Assessments</u><br><i>70% of quarter grade</i>  |
|---|---|
| Classwork must include a variety of assignments such as warm-ups, notebook checks, quizzes, group work, in-class tasks, class participation, etc. Class participation rubrics must be approved by the principal/designee. | Formal assessments must include a variety of assignments such as tests, comprehensive writing assignments, projects, etc. A minimum of 4 formal assessments per quarter shall be included in the final grade. Project rubrics must be approved by the principal/designee. |

Rubrics will be provided for each assignment.

**Retesting Policy:**

Students must fulfill specified requirements in order to retest. Students **must retake the test within a week (7 days)** of the original graded assessment being returned. Additional time for unusual circumstances will be considered. Students are limited to **one retest per quarter**.

**Class Requirements:**

This class is designed to challenge students interested in chemistry. This is a combined class of both SL and HL students will learn all material, including HL topics. At times, those who are HL students will be expected to show a deeper understanding of content knowledge.

**TOK and NOS:**

This class will allow students to draw conclusions between the theory of knowledge and the nature of science. Prompts will be given to students to help them connect how chemistry is utilized and applicable in the real world.

**Labs:**

Students will participate in lab activities throughout this course. Labs will come in various forms such as but not limited to practicals, simulations, design labs, etc. Students are expected to behave in a professional manner at all times while participating in labs. At no time will food, drinks, or cell phones be allowed in the lab area. Students will be required to maintain lab notebooks and complete lab reports.

**Methodology:**

A combination of lecture, class discussion, presentations, videos, cooperative learning, and problem-based learning will be used in this course. Grades will be determined by the satisfactory and timely completion of assignments. The grade of each assignment is based on the prerequisite given for each assignment. Below is an overview of topic/ units and major assessments/assignments for this course. Please note all assignments are not listed and dates/timeframes are subject to change and are an estimate.

| Units                         | Time Frame                             | Projects                          |
|-------------------------------|--|-----------------------------------|
| Equilibrium                   | Quarter 1<br><b>September</b>          | IA Topic<br>IA Materials          |
| Acids and Bases               | Quarter 1<br><b>September/October</b>  | IA Methodology<br>Group 4 Project |
| Redox                         | Quarter 2<br><b>October/November</b>   | IA Intro                          |
| Organic Chemistry             | Quarter 2/3<br><b>November-January</b> | IA Lab Time                       |
| Option D: Medicinal Chemistry | Quarter 3/4<br><b>January/February</b> | IA Due                            |
| <b>Final Review</b>           | Quarter 4<br><b>March/April</b>        |                                   |

**SL Assessment Outline:**

| Component           | Overall weighting (%) | Approximate weighting of objectives (%) |    | Duration (hours) |
|---------------------|-----------------------|---|----|------------------|
|                     |                       | 1+2                                     | 3  |                  |
| Paper 1             | 20                    | 10                                      | 10 | ¾                |
| Paper 2             | 40                    | 20                                      | 20 | 1¼               |
| Paper 3             | 20                    | 10                                      | 10 | 1                |
| Internal assessment | 20                    | Covers objectives 1, 2, 3 and 4         |    | 10               |

**HL Assessment Outline:**

| Component           | Overall weighting (%) | Approximate weighting of objectives (%) |    | Duration (hours) |
|---------------------|-----------------------|---|----|------------------|
|                     |                       | 1+2                                     | 3  |                  |
| Paper 1             | 20                    | 10                                      | 10 | 1                |
| Paper 2             | 36                    | 18                                      | 18 | 2¼               |
| Paper 3             | 24                    | 12                                      | 12 | 1¼               |
| Internal assessment | 20                    | Covers objectives 1, 2, 3 and 4         |    | 10               |

**Class Policies:**

**1. Always be respectful**

- Be respectful of yourself, your teacher, your peers, and property
- Be respectful by raising your hand to ask a question
- Be respectful by keeping noise to a minimum and not speaking when others are speaking

**2. Be accountable**

- Be accountable for your attitude. Come in with positivity!
- Be accountable for your work
- Be accountable for your actions

**3. Follow directions**

- Wait in your seat until instructions are given

**4. Be prepared for learning**

- This is your time to ask for paper and pencil
- Start on work posted on the board
- Turn in homework to appropriate bin

**5. PARTICIPATE**

- Ask questions
- Be engaged in your learning!

**NO cell phones should be out during lecture time**

**NO eating or drinking in the lab area**

**Consequences:**

1. Verbal Warning
2. 1:1 Conversation/TOK Writing Prompt
3. Behavior Accountability Sheet/Parent Contact
4. Referral
5. Removal from class

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**Please sign, date, and return to your teacher.**

I have read the class syllabus for Ms. Peace's Chemistry class and am aware of my duties and responsibilities to being successful this school year, as well of what is expected of me by my teacher. I will adhere to the Honor Policy as it is outlined by the IB Programme.

Student Name: \_\_\_\_\_ Student Signature: \_\_\_\_\_

Student Email: \_\_\_\_\_

Parent Name: \_\_\_\_\_ Parent Signature: \_\_\_\_\_

Parent Email: \_\_\_\_\_ Parent Phone: \_\_\_\_\_