



**INSTITUTE OF CHEMISTRY**  
University of the Philippines Diliman  
Diliman, Quezon City 1101  
Philippines



Tel. No. 920-5430  
Fax No. (632) 920-5427

U.P. Trunkline 981-8500  
Local 3652, 3651

**Advance Placement Examination in Chem 16 and Chem 16.1 for Incoming Freshmen  
Credit by Written and Practical Examination  
Chem 16 Written Examination on Monday, 03 June 2019, 9:00am – 11:00am  
Chem 16.1 Practical Examination on Thursday, 07 June 2019, 9:00am – 11:00am  
Institute of Chemistry, Teaching Building  
National Science Complex, UP Diliman**

**What is the Advance Placement Examination (APE)?**

The Advance Placement Examination is given before the registration of the First Semester of every academic year to freshmen qualifiers of the University of the Philippines Diliman. The APE is OPTIONAL and may be taken by anyone who has sufficient high school background in the covered topics.

**APE in Chem 16 (General Chemistry I) and Chem 16.1 (General Chemistry I laboratory)**

An incoming freshman who has taken and passed high school chemistry may take the APE in Chem 16. The student must take and pass the written examination before he/she will be allowed to take the practical examination for Chem 16.1. The student will be given 3 units credit for Chem 16 and 2 units credit for Chem 16.1.

**What are the advantages of taking and passing the APE?**

A student who passes the APE saves time since he/she does not need to enroll in the subject and he/she may proceed to the next subject.

**When and Where to Apply?**

Application period is **until 17 May 2019** at the Institute of Chemistry, Administration Building, 1<sup>st</sup> Floor Teaching Building College of Science. Qualified applicants will be given examination permits upon presentation of the requirements.

**What to bring when applying for APE?**

- UP Admission Notice
- Certified photocopy of students transcript of records or report cards that reflect your grades in Chemistry
- Two recent 2x2 pictures of the student
- Valid photo identification card with signature of the student

**Topics to be covered in APE**

1. Matter: Properties, Composition and Changes it Undergoes
2. Quantum Theory and Atomic Structures
3. Electron Configuration and Chemical Periodicity
4. Chemical Bonding
5. Molecular Geometry and Bonding Theories
6. Stoichiometry and Chemical Equations
7. Chemical Reactions
8. Thermochemistry
9. Liquids, Solids & Phase Changes
10. Gases
11. Solutions
12. Acids and Bases
13. Changes in the Nucleus

### **What to Bring For the Examination?**

#### Written Examination

1. Black or blue ink pen
2. Examination Permit
3. ID card with picture & signature of student
4. Scientific calculator

#### Practical Examination

1. Black or blue ink pen
2. Examination permit
3. ID card with picture & signature of student
4. Laboratory gown

For more information, contact **Ms. Jane Palacay**, Institute of Chemistry, Tel 9818500 loc 3652