



VALIDATION and ADVANCED PLACEMENT EXAMINATIONS (APE)

Credit by Examination

FOR INCOMING FRESHMEN



Academic Year 2018– 2019
University of the Philippines
Diliman

APPLICATION PERIOD
14 - 25 May 2018 VALIDATION
14 - 31 May 2018 - ADVANCED
PLACEMENT EXAMINATION (APE)

Administrative Office
Institute of Mathematics
College of Science Complex
UP Campus, Diliman, Quezon City

EXAMINATION DATE AND TIME

VALIDATION (Math 20)

For Incoming Freshmen who have not
taken Calculus in Senior High School

28 May 2018 (MONDAY)

9:00 A.M. – 11:00 A.M.

ADVANCED PLACEMENT EXAMINATIONS (APE) (Math 21)

For Incoming Freshmen from STEM
Track and those who passed the
Validation Examination

01 JUNE 2018 (FRIDAY)

9:00 A.M. – 11:00 A.M.

Please be at the venue by:
8:30 A.M.

EXAMINATION VENUE

Mathematics Building
C.P. Garcia Ave., UP Campus
Diliman, Quezon City

For more information, contact:

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College of Science, UP Diliman, Q.C.
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The APE is an official activity of the:

INSTITUTE OF MATHEMATICS

College of Science
University of the Philippines
Diliman, Quezon City
<http://www.math.upd.edu.ph>
Tel No. (+632) 920-1009



WHAT TO BRING DURING THE EXAM

Black or Blue ink pen
Examination Permit

ID card bearing picture and signature
of student.

NOTE:

The APE is a closed book examination.
Answer sheets and scratch paper will be
distributed at the start of the examination
by the examiners. Calculators and cell
phones are not allowed.

What is the Math 20 Validation Exam?

The Validation Exam for Math 20 (Pre-Calculus) is an examination given to incoming freshmen who have not taken basic calculus in Senior High School. This examination is OPTIONAL and maybe taken by Freshmen admitted to degree programs requiring Math 21.

What is the Advanced Placement Examination (APE)?

The Advanced Placement Examination (APE) is an exam given before the start of the first semester of every academic year to any freshmen qualifier to the University of the Philippines in Diliman. The APE is OPTIONAL and may be taken by anyone who has sufficient high school background in the subjects concerned.

Who can take the Advanced Placement Examination (APE)?

The incoming freshmen students who came from STEM track who have taken calculus in high school may take the Advanced Placement Examination (APE) for **Math 21**. And the incoming freshmen students who came from non-STEM tracks need to take pass the **Validation Examination for Math 20** in order to take the **APE for Math 21**. A student who passes the **APE** shall be given credit of 4 units in **Math 21** in his / her academic program but no numerical grade.

What are the advantages of taking and passing the APE?

A student who passes the APE saves matriculation money, as well as time, since, he/she need not enroll in the subject passed and may proceed to the next subject.

When and Where to Apply

Application Period is on:

14 – 25 May 2018 for **Validation** and

14 – 31 May 2018 for **APE**

except on Saturdays, Sundays and official holidays at the Admin Off. Mathematics Building, Science Complex, UP Diliman, Q.C.

What to bring when applying for APE

- UP Admission Notice
- Certification that have taken Calculus in SHS
- Certification that have passed the Validation in Math 20
- Certified Photocopy of Student's High School Transcript of Records (Form 137- 7th-12th year) or HS Report Cards (Form 138 - 7th-12th year);
- Two recent 2x2 pictures of the student
- Valid photo identification card with signature of student.

TOPICS FOR EXAMINATION

Math 20 Precalculus: Functions and their Graphs.

- Equations and inequalities;
- two dimensional coordinate system, graphs of equations;
- conic sections;
- functions and their graphs;
- trigonometric functions and trigonometric identities;
- inverse trigonometric functions;
- solutions of triangles;
- polar form of complex numbers.

Math 21 Elementary Analysis I.

- Limits and continuity;
- derivatives of algebraic and transcendental functions (exponential, logarithmic, trigonometric, hyperbolic, and their inverses);
- applications of derivatives;
- antiderivatives and definite integrals; Fundamental Theorem of Calculus;
- applications of the definite integral.

WHO CAN TAKE THE ADVANCED PLACEMENT EXAMINATION (APE)?

