

## ADVISORY

CHED Endorsement and DepEd Advisory regarding this activity shall be posted and can be downloaded from our website at: <http://www.upb.edu.ph>.

## REGISTRATION DETAILS

Participant Category	Early Registration	On-site Registration
Department of Biology	P1,800.00	P2,000.00
Department of Physical Sciences	P1,800.00	P2,000.00
Department of Mathematics and Computer Science	P2,200.00* *and for MSP members	P2,500.00
Human Kinetics Program	P2,200.00	P2,500.00

Payment thru bank deposit (UPCB Educational Foundation, Inc. DBP Baguio Current Account 0510-004420-030) must be received by *April 10, 2016* to avail of early bird registration. A copy of the bank transaction receipts should be sent to [sinsm.upbaguio@up.edu.ph](mailto:sinsm.upbaguio@up.edu.ph). All registered participants are entitled to have seminar kit, lunch and am/pm snacks.

## INQUIRIES

For more inquiries and reservation of slots, please contact:

### SINSM Committee

**Prof. Liezel M. Magtoto**  
Committee Chair  
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Committee Co-Chair  
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Representatives:

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*The*

**College of Science  
University of the Philippines  
Baguio**

*invites you to its*

## **22<sup>nd</sup> Summer Institute in the Natural Sciences and Mathematics (SINSM)**

*with the theme*

**“STRENGTHENING THE K–12  
SCIENCE AND MATHEMATICS  
CONCEPTS AND PEDAGOGIES”**

28–30 April 2016  
University of the Philippines Baguio

The Summer Institute in the Natural Sciences and Mathematics (SINSM) is an annual extension service of the College that seeks to offer venues by which educators in the Sciences and Mathematics in the Cordillera region, as well as nearby areas, are updated on current issues in these fields. Since 1990, the SINSM has trained and updated secondary and tertiary teachers on the latest developments in theory, applications and pedagogy, as well as refresher courses in the basic concepts in the fields of Biology, Mathematics, Computer Science, Physics, Chemistry, and Geology. Our services are inspired by the very objectives of the Commission on Higher Education (CHED) in its desire to inculcate academic excellence in the teaching of Science and Mathematics-allied degree programs by strongly encouraging the conduct of lectures and seminar workshops that promote interest in and awareness of developments in the basic and advanced Sciences and Mathematics, together with the Department of Education's objectives to establish and maintain a complete, adequate, and integrated system of basic education relevant to the goals of national development.

The 22<sup>nd</sup> SINSM is scheduled on 28–30 April 2016. Each Department in the College has its own theme, schedule and venue for the activity.

#### DEPARTMENT OF BIOLOGY

The Department of Biology adopts the theme ***“Understanding the Concepts of Genetics, Morphoanatomy, and Taxonomy in the Light of Evolution”*** for the 22<sup>nd</sup> SINSM. The thrust of this year's SINSM is to equip and train the K–12 educators of the concepts on genetics, morphoanatomy, taxonomy, and evolution.

An early bird registration fee of Php 1,800.00 applies to those who will register until April 10, 2016. On-site registration fee is Php 2,000.00. This entitles the participants to a seminar kit, lunch and snacks during the seminar-workshop proper but does not cover accommodations and meals outside the sessions.

#### DEPARTMENT OF PHYSICAL SCIENCES

The Department of Physical Sciences will be having its SINSM in two subject areas: Physics and Chemistry.

The theme for this year's SINSM is ***“Addressing Issues in Content and Pedagogy in the K-12 Science Curriculum”***. The main focus of this year's SINSM is to give educators, especially secondary school teachers, more ideas and strategies in handling the physics and chemistry courses in the K-12 program, especially in laboratory work.

An early bird registration fee of Php 1,800.00 applies to those who will register until April 10, 2016. On-site registration fee is Php 2,000.00. This will entitle the participants with a seminar kit, lunch, AM and PM snacks during the workshop.

For the venue and more details, please contact Ms. Bhazel Anne Pelicano – email address: [brpelicano@up.edu.ph](mailto:brpelicano@up.edu.ph), contact # 09177267598.

#### DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

The Department of Mathematics and Computer Science adopts the theme ***“Research and Mathematics Education in Response to the K-12 Curriculum”*** for SINSM 2016.

The department will conduct lectures on Pre-Calculus (Analytic Geometry, circles, conic sections, series and mathematical induction, trigonometry), Calculus with Matlab (Functions, Limits and Continuity, Derivative and Integral), General Mathematics and Business Mathematics, Probability and Statistics, Mathematical Modelling and Optimization, Basic Computer Programming and Algorithm Design for high school students. The department will also conduct two plenary sessions on Elementary Higher Mathematics Courses for High School educators and Recent Trends in Mathematics Researches for tertiary educators.

An early bird registration fee of Php 2,200.00 applies to those who will register until 10 April 2016 (and for MSP Members) and Php 2,500.00 for on-site registration and MSP non-members. This will entitle each participant a seminar kit, lunch and snacks during the workshop proper.

#### HUMAN KINETICS PROGRAM (HKP)

The Human Kinetics Program intends to introduce Physical Education as an OUTDOOR RECREATION activity; where participants will have the opportunity to be involved in activities undertaken outside the confines of buildings and going into large areas of the environment. The highlights of the activities will include: Heart Rate Variability, Petanque, Camp Administration, Outdoor Team Building Activities and Bird Watching as a recreational Physical Education course.

The registration fee includes a camp fee for the 2<sup>nd</sup> and 3<sup>rd</sup> day and travel fee.