

## PROGRAMS OFFERED

### I. The PSHS Specialization Years Program

The PSHS Specialization Years Program adopts an **Outcomes-Based, Student-Centered** and **Humanistic** curriculum that is focused on the holistic development of the student. The integration of the cognitive, application, and affective learning domains in all subjects under the program ensures that every scholar develops positive self-concept and interpersonal skills that complement their thinking and practical abilities.

The SYP curriculum has the following features:

- 1. Outcomes-Based.** All component subjects of the Program are focused and aligned with a pre-determined set of learning outcomes that students can demonstrate at the end of each course. These outcomes represent what learners can actually do with the content, information, ideas and tools that they learned from the course.
- 2. Learner-Centered.** The curriculum offers opportunities for students to reflect on and explore the things they have learned. Subject areas are designed to demonstrate relevancy of knowledge to a student's life, culture, local environment or future career.
- 3. Humanistic.** The areas of *Cognitive* and *Application* skills are further developed by integrating and using the affective domain in relating to relevant situations and decisions. Such approach is meant to help build students' character, confidence, self-awareness, interpersonal skills, and positive self-concept.
- 4. Focused on Higher Order Learning.** The Specialization Years Program (SYP) emphasizes on critical, logical, reflective, metacognitive and creative thinking skills by exposing students to real-life problems that often demand not only complex solutions but also consideration of multiple variables to solve. Teaching strategies and assessment components for SYP subjects are designed to facilitate and test the development of students' creative and critical thinking skills through social interaction and deep reflective learning.

### II. The PSHS SYP Curriculum

The PSHS Specialization Years Program offers science course options (Biology, Chemistry, Physics), required core subjects (Mathematics, Research, Social Science, English, and Filipino), and STEM elective courses (Engineering Science, Computer Science, Technology, and Agriculture) for Grades 11 and 12. The mathematics subject and the science course options may be offered by a campus at two levels (Levels 1 and 2), which are distinguished by the degree of difficulty or advancement of the subject matter covered.

To get into the PSHS Specialization Years Program, a student must have successfully completed the Grade 10 curriculum of PSHS.

As a requirement for graduation, a student must earn the required credit units in a Science Core subject (Level 1 or 2), Mathematics (Level 1 or 2), Research, STEM elective, and the humanities subjects of Filipino, English, and Social Science for both Grades 11 and 12.

Each student must also earn 80 hours of credit under the Science Immersion Program (SIP) which may be undertaken during summer before or during the school year of Grade 10, 11, or 12; and 160 hours of Service, Creativity, Action, and Leadership Enhancement (SCALE) while in Grades 11 or 12. The prescribed hours of activity per program have no credit units, but are required for graduation.

### III. S.C.A.L.E (Service, Creativity, Action, Leadership Enhancement) Program

The Philippine Science High School System (PSHSS) is tasked with providing an education that is humanistic in spirit, global in perspective, and patriotic in orientation. Our scholars are envisioned to possess attributes and capabilities which will make them better and productive citizens of the country and the world.

Anchored in the individual student, we strive to nurture learners with twelve attributes of mind and heart, and eight key skills that will allow them to thrive in the 21st century.

<u>Learner Profile</u>	<u>General Capabilities</u>
Balanced Communicator Compassionate Creative and Innovative Inquirer Knowledgeable Life-long Learner Open-Minded Patriotic Principled Reflective Thinker	Critical and Creative Thinking Ethical Understanding Global Perspective ICT Capability Literacy Numeracy Personal and Social Capability Scientific Literacy

The PSHS Curriculum emphasizes on science and mathematics education but gives importance to the development of well-rounded individuals groomed to be professionals and leaders. The border or rule of student life into Foundation (grades 7-8), Advancement (grades 9-10) and Specialization (grades 11-12) Years reflects the transitioning of the child from tween to teen to young adult. These stages have developmental characteristics that impact on both their intellectual and emotional growth.

Under the Specialization Years Program (SYP), is ***Service, Creativity, Action, and Leadership Enhancement (SCALE) Program***, a non-graded program that allows scholars to develop their personal and interpersonal skills and nurture important values by engaging in extra-curricular activities within or outside of the school environment. It provides PSHS scholars with a structure that will encourage them to try new things, widen their interests, enable them to collaborate with a team, hone their leadership skills, and serve their school, family and community.

This SCALE program balances and complements the strongly academic science and mathematics component of the PSHS curriculum.

Under SCALE, every campus endeavors to provide the scholar with a personal journey of self-realization which is challenging and enjoyable. Each individual scholar may have different goals and needs, but through SCALE, it is envisioned that each one will become a better person in school, at home, and in the wider community.

Completion of the SCALE program is a requirement for graduation in the current 6-year PSHS curriculum.

#### **IV. Science Immersion Program (S.I.P.)**

##### **History**

The Philippine Science High School (PSHS) ***Science Immersion Program (SIP)*** provides opportunities for scholars to interact with individuals involved in Science and Technology (S&T), increases their awareness and knowledge of issues in S&T, and familiarizes them with the programs and strategies implemented by S & T institutions.

The PSHS System has been implementing the 120-hour Summer SIP (SSIP) in the past in collaboration with different agencies and universities all over the country. Feedback from student-interns indicate that their SIP experiences in host institutions were not only educational and productive, but also fun-filled and memorable. The program also allows student-interns to develop their interest in science-oriented courses and programs.

##### **SIP in the New 6-Year PSHS Curriculum**

The SIP, now renamed as ***Science Immersion Program (SIP)*** in the new 6-year PSHS curriculum, is a required, non-graded course. It can be taken before the start of the academic year for incoming Grades 10 to 12 students. The SIP is a two- or three-week internship program with a minimum of 80 hours official internship time in a participating science or research institution. Ideally, student-interns will be assigned to the institution based on their interests and chosen specialization for Grades 11 and 12.

As the PSHS aims to be the leading science high school in the ASEAN by 2016, the SIP has been expanded

to cover international internship programs. Such opportunities will provide PSHS student-interns exposure to global trends in S & T, while enriching their cultural experience.

Through the SIP, student-interns are expected to:

1. learn science, engineering, and research laboratory skills and concepts;
2. foster interactions with researchers, scientists, and technical personnel as they participate in research projects;
3. be exposed to basic science or engineering principles applied in the operation of the facility;
4. identify possible research problems to be pursued as projects in the future; and
5. establish linkages with institutions especially for future collaborations.