



Senior High School **Strengthened Program| RAM Model**

Prospectus

Academic Pathways

Those students who opted to enroll in the APC Strengthened SHS Program are required to choose one out of the six Academic Pathways during the intake procedure in Grade 11, Term 1. Each pathway aims at supporting APC's college courses and industry partnerships, thus creating a meaningful and well-defined link from senior high school to college and one's professional career.

1. Computing and AI Transformation

Pathway Description

The Computing and AI Transformation Pathway develops logical, structured thinking essential in today's technology-driven world. Moving beyond basic computer literacy, students learn how data, algorithms, and digital systems solve real-world problems through foundations in automation, analytics, and intelligent systems.

Through hands-on, project-based learning inspired by APC's Real Projects. Real Learning. philosophy, students explore the relationship between analytical logic and digital tools. This approach empowers learners to decompose complex problems, design digital solutions, and apply emerging technologies responsibly to improve organizational efficiency and promote community welfare.

Skills Developed

- Computational thinking and logical problem decomposition
- Data awareness, analytical thinking, and pattern recognition
- Digital systems and algorithmic understanding
- Technology-enabled problem solving
- Ethical and responsible use of technology
- Collaborative innovation and project development

Future Higher Education Programs

- Bachelor of Science in Computer Science
- Bachelor of Science in Information Technology
- Bachelor of Science in Data Science
- Bachelor of Science in Information Systems
- Bachelor of Science in Artificial Intelligence

Curriculum Overview

The table below outlines the curriculum structure for this pathway. Elective subjects are to be finalized; placeholder codes are provided for planning purposes.

Course Code	Course Name	Course Description
SHEFCOM SHMAKOM	Effective Communication/Mabisang Komunikasyon	This course develops bilingual communicative competence in both English and Filipino, preparing students to engage confidently across academic, professional, and real-world contexts. Grounded in the B2 level of the Common European Framework of Reference, learners build the voice, versatility, and ethical awareness of professionals ready to contribute in a multilingual and globally connected world.

SHGMATH	General Mathematics	This course builds students' mastery of core mathematical concepts — from algebra and geometry to statistics — applied through the lens of their chosen career pathway. Learners develop the quantitative reasoning and data-driven decision-making skills that form the backbone of any professional career in technology, business, engineering, or the creative industries.
SHGNSCI	General Science	This course takes a transdisciplinary approach to Physics, Chemistry, Biology, and Earth and Space Science, building the scientific literacy students need to understand real-world phenomena and drive innovation across any career pathway. Through hands-on experimentation and evidence-based problem solving, learners develop the critical and scientific thinking skills essential for a technology-driven, globally competitive world.
SHLCSKL	Life and Career Skills	This course develops the personal, social, and professional competencies students need to thrive across the workplace, community, and beyond — from self-awareness and resilience to leadership and adaptability. Treating health, wellness, and career readiness as interconnected foundations, learners build the mindset and life skills to navigate transitions confidently into higher education, employment, or entrepreneurship.
SHPKLPI	Pag-aaral ng Kasaysayan at Lipunang Pilipino	Ang kursong ito ay sumusuri sa mga isyu at usaping panlipunan at pangkasaysayan sa pamamagitan ng tematiko, multikultural, at interdisiplinaryong pananaw, na nagbibigay sa mga mag-aaral ng malalim na pag-unawa sa pagkakakilanlan at kapalaran ng bansang Pilipinas. Higit sa pagsasaulo ng mga pangyayari, nalilalang sa mga mag-aaral ang kamalayang sibiko at ang responsibilidad bilang mga propesyonal na handang mag-ambag sa napapanatiling pag-unlad ng bansa at ng daigdig.
SHETECH	Empowerment Technologies	This course builds students' digital competency through hands-on experience with productivity tools, basic programming, digital citizenship, and emerging technologies — developing the technical fluency and responsible digital habits expected of professionals across any field. Learners apply these skills purposefully across their chosen pathway, establishing a cross-cutting digital foundation that carries into every subject and, ultimately, into their careers.
SHORMAN	Introduction to Organization and Management	This course introduces students to the foundational principles that govern how organizations are structured, led, and sustained — covering the core management functions of planning, organizing, leading, and controlling within real-world business contexts. Learners develop the decision-making frameworks and leadership perspectives needed to navigate human resources, operations, and corporate ethics with the organizational fluency expected of capable professionals in any field.

SHRSCHM	Research Methods	This course guides students through the complete research process — from designing methodologies and gathering data to analyzing findings and communicating conclusions with clarity and integrity. Learners develop the critical thinking and ethical grounding needed to produce credible, evidence-based work that drives informed decision-making across any academic or professional field.
SHFDATA	Fundamentals of Data Analytics	This course introduces students to the full data lifecycle — from collection and processing to visualization and storytelling — building the analytical skills needed to thrive in an increasingly data-driven world. Learners develop the critical thinking and digital literacy to transform raw data into clear, compelling insights that drive evidence-based decision-making across any professional field.
SHPCAL1	Precalculus 1	This course develops students' mathematical fluency in analytic geometry and trigonometry — building the conceptual understanding and problem-solving precision needed to model and interpret real-world phenomena through a mathematical lens. Learners establish the quantitative foundations essential for advanced mathematics, physics, and engineering, developing the analytical rigor and spatial reasoning that define capable professionals in technically demanding fields.
SHPHY01	Physics 1	This course builds a foundational understanding of how the physical world operates — exploring the interactions of matter, motion, and energy through conceptual inquiry and quantitative problem-solving. Learners examine how the principles of physics underpin the technologies and systems that define modern life, developing the scientific reasoning and technical grounding essential for careers that demand precision and analytical thinking.
SHAMAT1	Advanced Mathematics 1	This course advances students' mathematical fluency across algebra, trigonometry, probability, and statistics — with a special focus on inferential statistics as a tool for drawing meaningful conclusions from real-world data. Using contemporary digital tools, learners build the quantitative and analytical foundation that serves as the academic backbone for pathways in computing, engineering, data science, and beyond.
SHDAMAN	Database Management	This course develops students' ability to design, query, and secure structured databases — building the technical fluency that forms the backbone of virtually every modern digital system. Learners work hands-on with SQL and database administration, gaining practical skills directly applicable to back-end development, data analysis, and the infrastructure that powers today's technology-driven industries.
SHDESIN	Design and Innovation	This course immerses students in human-centered design thinking — moving from research-backed problem framing through creative problem-solving, prototyping, and iteration

		to produce practical, community-impactful solutions. Building directly on their Research Methods proposal, learners operate as innovators and collaborators, developing the design fluency and persuasive communication skills that define careers in product design, UX/UI, entrepreneurship, and beyond. For the Computing and AI Transformation Pathway: This course extends the design thinking process into the digital frontier — challenging students to apply their research findings toward the development of technology-driven solutions that leverage AI, automation, and intelligent systems to address real-world problems with precision, creativity, and ethical intent.
SHIMRSN	Work Immersion	This course immerses students in a culminating, pathway-specific experience where they design and develop their Signature Work — a unified, professional-grade output that demonstrates mastery of everything learned across their Senior High School journey. Alongside their Signature Work, learners pursue and earn industry-recognized professional certifications, graduating not just with academic credentials but with the verified competencies that employers and higher education institutions demand.

