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Course Descriptions:

AP Biology: A college-level biology course covering molecular and cellular biology, genetics, evolution, organisms, populations, and ecology. Includes laboratory work and prepares students for the AP Biology exam.

AP Calculus AB & BC: College-level calculus courses with AB covering limits, derivatives, and basic integration (equivalent to Calculus I), while BC includes all AB content plus additional topics like series, parametric equations, and polar coordinates (equivalent to Calculus I and II).

AP Chemistry: A comprehensive college-level chemistry course covering atomic structure, chemical bonding, states of matter, reactions, kinetics, equilibrium, thermodynamics, and electrochemistry with laboratory components.

AP Computer Science A & Computer Principles: CS A focuses on Java programming, algorithms, and object-oriented design. Computer Principles is broader, covering computing concepts, programming basics, data, internet structure, and digital citizenship.

AP English Language / AP Literature: Language focuses on rhetorical analysis and argumentative writing. Literature emphasizes literary analysis of texts from various periods and genres. Both develop critical reading and writing skills.

AICE English General Paper: A Cambridge-based course developing analytical thinking, clear communication, and research skills through exploration of global issues, requiring strong written argumentation.

AP Environmental Science: Integrates geology, biology, chemistry, and other sciences to examine environmental systems, human impacts, and sustainability issues through scientific principles and field study.

AP European History: Examines European history from 1450 to present, focusing on cultural, economic, political, and social developments that shaped the modern world.

AP Psychology / AICE Psychology: Explores human behavior and mental processes through various theoretical approaches, research methods, and practical applications.

AP Physics 1: An algebra-based physics course covering Newtonian mechanics, work, energy, power, mechanical waves, and sound, with an introduction to electric circuits.

AP Physics C / Mechanics: A calculus-based physics course focusing on mechanics, including kinematics, Newton's laws, work, energy, power, systems of particles, rotation, oscillations, and gravitation.

AP Precalculus: Prepares students for calculus through exploration of functions, including polynomial, rational, exponential, logarithmic, and trigonometric functions.

AP Research: The second course in the AP Capstone program where students conduct year-long research projects culminating in academic papers and presentations.

AP Seminar: The first course in the AP Capstone program focusing on research, analysis, evidence-based arguments, collaboration, and presentation skills.

AP Spanish Language: Develops Spanish proficiency through study of language, literature, and culture, emphasizing communication skills.

AP Statistics: Introduces students to major concepts of collecting, analyzing, and drawing conclusions from data, including exploratory analysis, planning studies, probability, and statistical inference.

AP United States History: Surveys American history from pre-Columbian era to present, examining cultural, economic, political, and social developments.

AP World History: Examines global historical patterns, processes, and connections among societies from approximately 8000 BCE to present.

Certifications:

Al Pathway:

1. IT Specialist – Devices and Management 2. IT Specialist – HTML/CCS 3. IT Specialist – Computational Thinking 4. IT Specialist - Artificial Intelligence 5. Microsoft Certified: Azure AI Fundamentals 6. IT Specialist – Python 7. IT Specialist – Data Analytics 8. Microsoft Azure – AI Engineer Associate

Engineering Pathway:

9. Autodesk Fusion 360 10. Autodesk Inventor 11. Autodesk AutoCAD 12. Autodesk Revit 13. Autodesk 3D Max 14. MSSC Certified Production Technician (CPT)

BioDesign Pathway:

15. Biotechnician Assistance Credentialing Exam (BACE).

Digital Arts:

16. Adobe Photoshop 17. Adobe Illustrator.

These certifications are part of different programs of study offered at NeoCity Academy, such as the Artificial Intelligence pathway, Engineering program, and Biodesign program.