



# SEMINOLE HIGH SCHOOL NGC

Jaime Washington, Principal Ninth Grade Center  
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# SEM1NOLE

Academy of Health Careers | International Baccalaureate | PSI High | Performing Arts | Aviation | Mass Media | Athletics



9th Grade Center

Welcome to the NGC!



## Agenda

- The NGC Concept
- Curriculum Offerings
- Graduation Requirements
- Community Service

# The NGC Concept



**9th Grade Center**

- The Concept: To create an environment for success for the Seminole High School freshmen; to allow for more manageable numbers on the main campus.
- The Ninth Grade Center (NGC) is accommodating approximately **1200 students** from the Health Sciences, Pre-DP program, PSI High, and zoned students.

**Contact us to schedule a tour:  
Monday through Friday at 8 am & 9 am, by appointment only.**

# Curriculum Offerings/E-Pathways

- **Traditional (Standard, Honors, AP)**
- **Magnet Programs ~ Pre-DP & AOHC**
- **Programs of Emphasis ~ PSI High & Aviation**
- **CAPE ~ Career and Professional Education**

# What is a Magnet Program?

Magnet programs address the individual interests and abilities and provide students with educational opportunities that take them beyond traditional instructional experiences. At Seminole High the magnet programs are "schools within a school" with selected students involved.

## **Seminole High School Offerings**

The Pre-Diploma Program  
(Pre-DP, formerly known as Pre-  
International Baccalaureate)

The Academy of Health Careers (AOHC)



Seminole County  
Public Schools



The selection process for all Magnet Programs, including the Academy of Health Careers, is handled by Seminole County Public Schools Student Assignment and Program Access.

Please visit the Student Assignment & Program Access website for information regarding eligibility requirements, application timelines and contact information

<https://www.scps.k12.fl.us/district/departments/assignment-access/>

# COURSE/TRACK OUTLINE

## Grade 9: Principles of Biomedical Science Honors

***\*\* Once a track is selected at the end of the 9th grade year, it is difficult to move to another track as the coursework does not overlap in grades 10-12 patient care or biomedical science. \*\****

### Patient Care Program

The purpose of this program is to provide students with hands-on patient care. This program offers a solid foundation for anyone who would like to pursue a health career that deals directly with patients.

### Biomedical Science Program

The purpose of this program is to provide students with a foundation of knowledge and technically oriented experiences in the study and applications of biomedical sciences and the possibilities in the biomedical field. The content includes but is not limited to the study of human body systems, medicine, health, key biological concepts, communication, transport of substances, locomotion, metabolic processes, defense, protection, research processes, engineering principles, and an introduction to bio-informatics. The program also includes the design and development of various medical interventions, including vascular stents, cochlear implants, and prosthetic limbs. In addition, students review the history of organ transplants and gene therapy and stay updated on cutting-edge developments via current scientific literature.

# HEALTH ACADEMY CURRICULUM

- 4 English
- 4 Math (while in High School)
- 4 Science
- 4 Social Studies
- 2 Foreign Language (minimum)
- 1 Physical Education
- 1 Fine Arts
- Health Science course each year
- 1 Virtual Online Course

## Academy of Health Careers

Curriculum Area	Grade 9	Grade 10	Grade 11	Grade 12
Language Arts	English 1 English 1 Honors	English 2 English 2 Honors	English 3 English 3 Honors	English 4 English 4 Honors AP English Lit
Social Sciences	World History World History Honors  (Optional) AP Human Geography	World History World History Honors OR American History American History Hon AP American History	American History American History Honors AP American History OR Economics & American Government Honors & AP Levels	Economics & American Government Honors & AP Levels OR Political AP Psychology Honors AP Human Geography
Mathematics	Algebra 1 Algebra 1 Honors OR Geometry Geometry Honors OR Algebra 2 Algebra 2 Honors	Geometry Geometry Honors OR Algebra 2 Algebra 2 Honors OR Analysis of Functions OR Pre-Calculus	Algebra 2 Algebra 2 Honors OR Analysis of Functions OR Pre-Calculus OR Other math course according to state department progression	Math for College Readiness OR Analysis of Functions OR Other math course according to state department progression
Sciences	Environmental Science OR Biology Biology Honors AP Biology OR Chemistry Chemistry Honors	Biology Biology Honors Physical Science OR Chemistry Chemistry Honors OR Physics Physics Honors	Physics Physics Honors OR AP Biology AP Chemistry AP Environmental Science	Anatomy & Physiology Anatomy & Physiology Honors OR AP Biology AP Chemistry AP Environmental Science
World Languages	World Language 1 or 2	World Language 2 OR World Language 3 (optional)	World Language 3 or 4 (optional)	World Language 5 (optional)
Once admitted to the Academy of Health Careers, you must select the Health Sciences track or the Biomedical Sciences track. There can be no switching from one track to another track.				
Health Sciences	Medical Skills	Health Science Foundations 1	Health Science Foundations 2	Nursing Assistant OR Allied Health Assistant OR Electrocardiography Tech OR Allied Health & Wellness OR Vocational
Biomedical Sciences	Principles of Biomedical Sciences	Human Body Systems	Medical Interventions	Biomedical Innovation





- [www.IBO.org](http://www.IBO.org)
- <http://www.seminolehs.scps.k12.fl.us/>

# IB Academy Curriculum

## Seminole High School Pre-DP/International Baccalaureate Four-Year Curriculum

Curriculum Area	Grade 9	Grade 10	Grade 11	Grade 12
<b>Language A</b>	Pre-DP <sup>1</sup> English 1	AP English Lang	AP English Literature	IB English Lit 4 HL
<b>Language B</b>	Pre-DP Spanish 1 or 2	Pre-DP Spanish 2 or IB Spanish 3	IB Spanish 3 or 5 SL	IB Spanish 5 SL (if necessary)
	OR	OR	OR	OR
	Pre-DP French 1 or 2	Pre-DP French 2 or IB French 3	IB French 3 or 5 SL	IB French 5 SL (if necessary)
<b>Individual &amp; Societies</b>	Pre-DP World History or AP Human Geography	AP World History	S1: History of the Americas	S2: Theory of Knowledge
				Contemporary History HL S1: TOK    S2: HOTA
<b>Experimental Sciences</b>	Pre-DP Biology 1	Pre-DP Chemistry 1	<b>Select One:</b>	IB Biology HL (IB Biology 1 & IB Biology 3)
	Or if Biology Hon taken in 8 <sup>th</sup> :	or if Pre-DP Chem. taken in 9 <sup>th</sup> :		IB Biology 2 - SL
	AP Biology or Pre-DP Chemistry 1	Physics 1 Honors or AP Biology		IB Chemistry 2 - SL
				IB Chemistry - HL (AP Chemistry & IB Chemistry 3)
				IB Physics 2 - SL
<b>Mathematics<sup>2</sup></b>	<b>Select One Sequence:</b>	Algebra 1 and Geometry Honors <sup>3</sup>	<b>Select One:</b>	IB Math Studies SL (IB Math Studies & IB Stat & Diff Calculus)
		Geometry Honors		IB Math Studies SL: IB Stat & Diff Calc.    Math Elective
		Algebra 2 Honors Or Algebra 2 Honors Accelerated		IB Mathematics SL (IB Precalculus & IB Calculus & Descriptive Statistics)
			IB Mathematics SL: IB Calc. & Stat    Math Elective	
			Math HL	IB Mathematics HL (AP Calculus BC & IB Sets, Relations, & Groups)
<b>IB Sixth Subject</b>			<b>Select One:</b>	IB Music SL & HL IB Theatre SL IB Visual Art SL IB Psychology SL & HL IB Economics SL & HL A second IB science
<b>Electives</b>	2 Electives	2 Electives Consider: Physics 1 Honors (IB Physics 2 Pre-req) AP Music Theory (IB Music Pre-req)	1 Elective	1 Elective



## Typical 9<sup>th</sup> Grade Pre-DP (IB) Schedule:

- Pre-DP English
- Pre-DP World History or AP Human Geography
- Pre-DP Biology or Pre-DP Chemistry
- Pre-DP Spanish I or II or Pre-DP French I or II
- Algebra I Honors, Geometry Honors, Algebra II Honors or Pre-Calculus (Grades C or lower in middle school should be retaken for grade forgiveness)
- Any two electives

# PROGRAMS OF EMPHASIS

## PSI High

PSI High is an immersive, full-time program located within Seminole High School where students work in an environment that looks like a high-tech office instead of a classroom. Rather than learn through traditional instruction, our students join teams with their peers and teachers to solve real community, business, and social problems.

## Aviation Academy

This state-of-the-art program is designed to prepare students for pursuit of employment or advanced training in the commercial and general aviation industry. Throughout the program, students will learn the fundamentals of flight including: meteorology, navigation systems and procedures, flight planning skills, ground operations and service duties.



## Application Window: February 1 - April 1

- Only Out-of-zone students need to apply with Student Assignment & Program Access office
- Students out-of-zone can get a ticket-to-ride if there is a bus in the area

# PSI High Graduation Requirements

Grade	Humanities Block		STEM Block		Innovation Block		Elective
	English	Social Studies	Science	Math	Business	Design Track	
9	English 1 Honors	Cultural Geography	Biology Honors	Algebra 1 Honors or Geometry Honors	Digital Information Technology	Digital Design 1	<u>Recommended:</u> At least two years of foreign language (Spanish)
10	English 2 Honors	World History Honors	Chemistry Honors	Geometry Honors or Algebra 2 Honors	Business and Entrepreneurship Honors	Digital Design 2 Honors	<u>Recommended:</u> Summer Virtual Personal Fitness and Fitness Lifestyle Design
11	AP Language and Composition	AP U.S. History Honors	Physics Honors	Algebra 2 Honors or Trigonometry and Analysis of Functions Honors	Accounting Applications Honors	Digital Design 3 Honors	<u>Optional:</u> Any SHS elective course outside of PSI High
12	American Literature Honors	AP Government & AP Economics	AP Environmental	Statistics and Data Literacy Honors	Capstone: Business Management Honors*	Capstone: Digital Design 4 Honors*	<u>Optional:</u> Research course for flexible self-directed study in PSI High

*Shading reflects what courses will be vertically aligned into the same learning spaces at the same time.*

# PSI High 9<sup>th</sup> Grade Schedule

Typical 9<sup>th</sup> Grade PSI High Skyward  
Schedule:

Period	Class
1	English 1 Honors
2	Debate
3	Geometry Honors
4	Environmental Science Honors
5	Research 1
6	Digital Information Technology
7	FLEX period for outside electives, virtual, etc.

What the day looks like  
in practice:



*English, science, and social sciences are  
integrated into a block*

# 9th Grade Schedule Comparison

	<b>Traditional</b>	<b>Health Academy</b>	<b>IB Academy</b>	<b>PSI High</b>
<b>English</b>	<b>English 1</b>	English 1	English 1	English 1
<b>Math</b>	<b>Algebra or Geometry</b>	Algebra or Geometry	Algebra or Geometry	Algebra or Geometry
<b>Science</b>	<b>Bio or Env Sci</b>	Bio or Env Sci	Bio or Env Sci	Biology H
<b>Social Studies</b>	<b>Elective</b>	World History or AP Human Geo	Pre-DP World History or AP Human Geo	Cultural Geography
<b>Elective</b>	<b>Any</b>	Foreign Language	Pre-DP Foreign Language	Digital Info Tech
<b>Elective</b>	<b>Any</b>	Principles of Bio Med	Any	Digital Design 1
<b>Elective</b>	<b>Any</b>	Any	Any	Any



# Aviation Academy

## Aviation Academy Program

- **Private Pilot Ground School**
- **Aviation Maintenance 1**
- **Aviation Maintenance 2**
- **Aviation Maintenance 3**

**Industry Certification: FAA Ground School**

## Avionics Systems Program

- **Avionics Fundamentals 1**
- **Avionics Fundamentals 2**
- **Avionics Fundamentals 3**
- **Avionics Fundamentals 4**

**Industry Certification: Avionics Electronics Technician**

# CAPE ACADEMIES (CTE COURSES)



- ❖ Students earn Industry Certifications in HS leading to career preparedness & high-wage jobs after graduation.
- ❖ Students in the Traditional, Program of Emphasis, and Magnet students can also take CAPE courses.
- ❖ Academy Offerings: Aviation Maintenance, Automotive Maintenance, Automotive Collision, Building & Trades, Culinary Arts, and Mass Media (Web Design, TV Production, Digital Design)

# Career & Technical Education

## Automotive Collision Repair & Refinishing Program

- **Auto Collision Paint & Refinishing Assistant 1**
- **Auto Collision Paint & Refinishing Assistant 2**
- **Auto Collision Paint & Refinishing Assistant 3**
- **Auto Collision Paint & Refinishing Assistant 4**

Industry Certifications offered: ASE Collision, Repair, and Refinishing: Painting and Refinishing (B2), ASE Collision, Repair, and Refinishing: Mechanical and Electrical Components (B5).

## Automotive Maintenance & Light Repair Program

- **Automotive Maintenance & Light Repair 1**
- **Automotive Maintenance & Light Repair 2**
- **Automotive Maintenance & Light Repair 3**
- **Automotive Maintenance & Light Repair 4**

Industry Certifications: ASE Auto Maintenance and/or Light Repair G1.

## Culinary Arts Program

- **Culinary Arts 1**
- **Culinary Arts 2**
- **Culinary Arts 3**

Industry Certification: Certified Food Protection Manager (ServSafe).

# Graduation Requirements

- 26 total credits
- 2.0 unweighted cumulative GPA
- Pass 10th grade FSA ELA Exam
- Pass Algebra 1 EOC
- Participate in PSAT, Biology, Geometry, and U.S. History EOC Exams

**English** 4 credits

**Math** 4 credits  
(must be in high school and include Algebra 1 & Geometry)

**Science** 4 credits  
(must include Biology, Chemistry & Physics)

**Social Studies** 3 credits  
(World Hist., U.S. Hist., Economics & U.S. Government required)

**Fine/Practical Art** 1 credit

**Personal Fitness** .5 credit

**P.E. Elective** .5 credit

**Electives** 8 credits

**Virtual Credit** 1 credit

# STANDARD, HONORS & AP COMPARISON

	Standard	Honors	AP
Can it count for College Credit?	No	No	Yes
More or Less Rigorous?	Less	More	More
Counts toward final High School Transcript/Graduation?	Yes	Yes	Yes
Impressive to College Admissions?	<b>A 4.0 is always impressive to all types of colleges!</b>	More impressive to in-state colleges.	More impressive to out-of-state or private schools.

# HONORS VS. AP COURSES

Questions	Honors Classes	AP Courses
What are course requirements?	Recommended for students that take Advanced courses or students in Regular courses (earning A's & B's) in MS.	Teacher recommendation requested
What are the advantages?	Looks impressive on College entrance resume.	Students can earn college credit.
Which is better for future College students?	Better for students applying for in-state schools.	<b>Better for students applying for Elite schools &amp; out-of-state schools</b>
Who develops the curriculum?	FL Dept. of Education, SCPS Department of Teaching & Learning	<b>College Board</b>
How is it weighted?	.5 Point increase	1 point increase
Which is harder?	<b>Both are more challenging than standard classes, but AP tends to require more work and a strong work ethic.</b>	

# Community Service

<http://www.seminolehs.scps.k12.fl.us/students/student-services/community-service.shtml>

The volunteer service program empowers students to develop a sense of responsibility for others within their community as well as an understanding of the value of volunteerism and helping others.

Participation in the SCPS Volunteer Service Program includes the following additional benefits:

- Meet the volunteer service requirement in the Florida Bright Futures Scholarship program. The current requirement is 100 hours for Florida Academic Scholars (FAS), 75 hours for Florida Medallion Scholars (FMS), 30 hours for Florida Gold Seal Vocational Scholars (GSV), and 30 hours for Florida Gold Seal CAPE Scholars (GSC). See below for more information.
- Earn one-half (0.5) credit for successful completion of 75 approved hours of volunteer service. (One time; first 75 hours)
- Demonstrate commitment to colleges, universities, and future employers.



# Ninth Grade Center Counselors and Administration

NGC Counselor: Ms. Cheryl Knight ~ [knightcz@scps.k12.fl.us](mailto:knightcz@scps.k12.fl.us) (Last Names Students A-L)

NGC Counselor: Mrs. Cecilia Mercedes ~ [mercedcz@scps.k12.fl.us](mailto:mercedcz@scps.k12.fl.us) (Last Names M -Z)

HA Director/Assistant Principal: Shelly Prom~ [shelly\\_prom@2scps.k12.fl.us](mailto:shelly_prom@2scps.k12.fl.us)

IB Coordinator: Donna Noll~ [Donna\\_Noll@scps.k12.fl.us](mailto:Donna_Noll@scps.k12.fl.us)

IB Director/Assistant Principal: Barry Coleman~ [barry\\_coleman@scps.k12.fl.us](mailto:barry_coleman@scps.k12.fl.us)

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