



SEMINOLE COUNTY PUBLIC SCHOOLS

Career and Technical

EDUCATION





“ I knew I found my
ePathway when I
 began using my skills to plan
 for my rising **future.** ”





CTE has provided me with
knowledge that will shape
my post-secondary education and provide
me the **foundation** to enter the
evolving workforce of my generation.



SUPERINTENDENT'S MESSAGE



Dr. Walt Griffin
Superintendent

Seminole County Public Schools is taking bold steps to ensure that our students continue to be ready for college, careers, and citizenship. As a leading driver of economic success in Seminole County, we are committed to creating an educational environment where all students in our PreK-12 system earn a meaningful high school diploma. We embrace ePathways, a mindset in which school district innovation focuses on providing opportunities for all students to identify a clear pathway to post-secondary education, employment, and success.

I invite you to review this publication, which showcases the extensive Career and Technical Education (CTE) program options in Seminole County. CTE, which was once commonly known as “vocational education,” offers middle and high school programs that are appropriate for students with a variety of education and employment goals. All of these programs provide students with rigorous, real-world learning opportunities. Nearly all teachers in these programs have worked in industry and are supported by a business advisory committee that identifies changing trends in the field. Through ePathways, several programs are now offered after school and are open to students from all high schools.

As part of our commitment to continuous improvement, equipment is being upgraded

to ensure that students are learning in industry-standard labs and classrooms. Additionally, teachers have received training to be able to offer industry certifications, which are nationally recognized credentials. These certifications provide evidence that students have the skills necessary to enter the workforce in a specific field. A nationally recognized partnership with Seminole State College allows our teachers to work collaboratively with faculty from the college to ensure that instruction in our high schools aligns with post-secondary options at Seminole State and the University of Central Florida. Through this partnership, many students are able to earn college credit for their participation in advanced CTE coursework.

SCPS will also implement several new initiatives for the 2015-16 school year. Kindergarten students will receive an introduction to coding as part of a progression to robotics and computer science. Middle school students will access two new semester courses, *iJourney* (career exploration and digital citizenship) and *iConnect* (using technology to communicate effectively). In high school, several new industry certifications will be offered, and the district's new Advanced Manufacturing lab will open at Lake Mary High School. This high-tech facility will serve as an innovation hub for students working on projects at secondary schools across Seminole County.

Whether you are a student, parent, employee, business partner, or community member, I hope this resource provides insight into the myriad of opportunities that are available to students in Seminole County. Thank you for supporting SCPS and our efforts to prepare students for the workforce.

Walt Griffin, Ed.D., Superintendent

SEMINOLE COUNTY SCHOOL BOARD

Karen Almond Board Member

With a heart for serving this community, Karen has been a community and education advocate for more than 21 years and was first elected to the School Board in 2010. She has dedicated thousands of volunteer hours within the school system, the City of Casselberry, Seminole County, and grassroots political campaigns - helping to elect others who serve and support the needs and best interests of our students and community.



Jeffrey Bauer Board Member

Jeff Bauer comes from a long line of individuals dedicated to public service. He is the eldest child of late District One Board Member Diane Bauer. Having lived in Seminole County for over forty years, Jeff is an example of the education excellence produced by the Seminole County Public School system. Through community service and leadership roles in public education organizations, he continues to fulfill his long time interest in public education. He currently serves as Chairman of the Seminole County Early Learning Coalition, Seminole State Board of Trustees, Seminole State College Foundation, and the Florida Early Learning Council.



Tina Calderone, Ed.D. Board Member

Tina Calderone has been a lifelong public school advocate and was first elected to the School Board in 2010. She and her husband have been residents of Seminole County since 1989 and both of their children have graduated from SCPS. Tina is a proven community leader and volunteer as is evidenced by her membership in all of Seminole County's Chambers of Commerce and has served on the boards of the Greater Seminole County Chamber of Commerce, School Readiness Coalition, and Seminole County Library Advisory Board just to name a few.



Amy Lockhart Board Member

Amy was elected to the School Board in 2012. She is actively engaged in our community as a member of the Sallie Harrison Chapter of the National Society Daughters of the American Revolution, the Seminole County League of Women Voters, C.L.E.O. (Community Leaders and Elected Officials), and the Seminole County Regional Chamber of Commerce. In addition, she serves on the Central Florida Zoological Board of Directors, Seminole County Value Adjustment Board, and FSBA (Florida School Board Association) as a Legislative Committee Voting Member.



Dede Schaffner Board Member

Dede is a respected advocate for public education and founder/architect of Seminole County Public Schools' nationally recognized Dividends School Volunteer Program. She also co-founded Arts Alive in Seminole! and is a champion for Midway Safe Harbor. In addition, Dede serves on Florida School Board Associations (FSBA) State Board of Directors, the Foundation for Seminole State College, Board of Directors for the Seminole County Regional Chamber of Commerce, Seminole County Boys & Girls Clubs, Business Advisory Board, and the Foundation for Seminole County Public Schools.



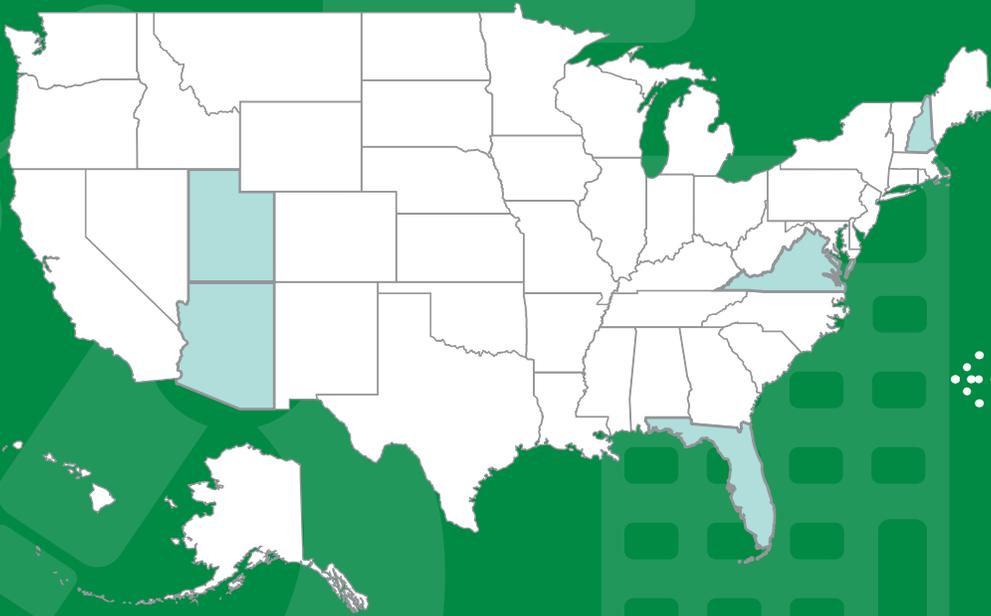
Florida's Economy and Job Outlook

Skilled Labor Demand

970,000 JOBS

Florida is projected to have approximately 970,000 jobs for those with Industry Certifications by the year 2018. In the 2014-2015 school year, SCPS students earned more than 1,600 Industry Certifications.

Marketing Sales and Service Careers



By 2018, the Marketing, Sales, and Service cluster will account for the largest share of the workforce in Florida and four other states.

Technology Jobs

 **+26%** JOBS IN
INFORMATION TECHNOLOGY

Jobs in the IT sector are projected to increase by 26% by the year 2018.

Workers with Post-Secondary Education

The Georgetown Public Policy Institute projects that, by the year 2020, U.S. employers will need five million more workers with post-secondary credentials.



High Tech Opportunities

These statistics, published in the Quarterly Census of Employment Wages by the Florida Department of Economic Opportunity, are aggregated at the county level for the 23 counties in the Florida High-Tech Corridor region.



Aerospace
15,033 jobs
\$84,513 avg salary



Media
2,653 jobs
\$84,135 avg salary



Financial Services
103,430 jobs
\$64,379 avg salary



Research/Engineering
28,912 jobs
\$69,440 avg salary



Photonics
2,168 jobs
\$64,204 avg salary



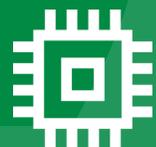
Telecommunications
21,455 jobs
\$62,275 avg salary



Medical Tech
10,437 jobs
\$53,927 avg salary



Information Tech
43,554 jobs
\$79,008 avg salary

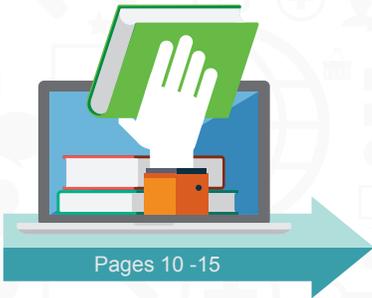


Microelectronics
16,130 jobs
\$69,968 avg salary



What it takes...

to be college, career and citizenship ready



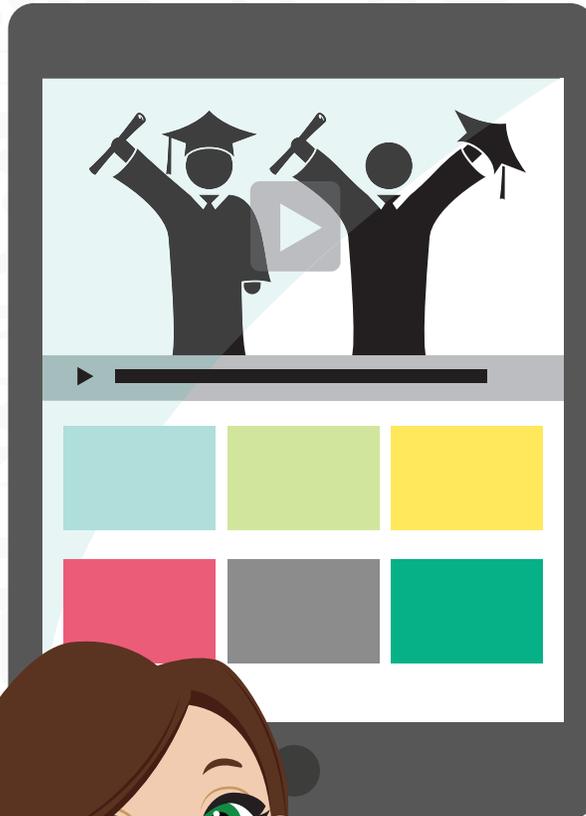
Find your ePathway

Students have opportunities to find their education pathways and master 12 skills identified by local employers and teachers to be vital to success in the economy.



Workplace Learning

Students are able to gain workplace experience through learning opportunities such as internships, job shadowing and career coaching/mentoring. Workplace learning provides a framework for the full acquisition and application of workforce skills.



Career & Technical Education

Students are provided with both industry-specific content and the opportunity to sharpen employment skills such as problem-solving, teamwork, communication and workplace ethics. Most programs and courses lead to industry certifications.



Advanced Coursework

Students have the opportunity to take academic courses that are rigorous and individualized. Flexible learning experiences, such as dual enrollment and career pathways, provide opportunities to meet individual needs and interests.



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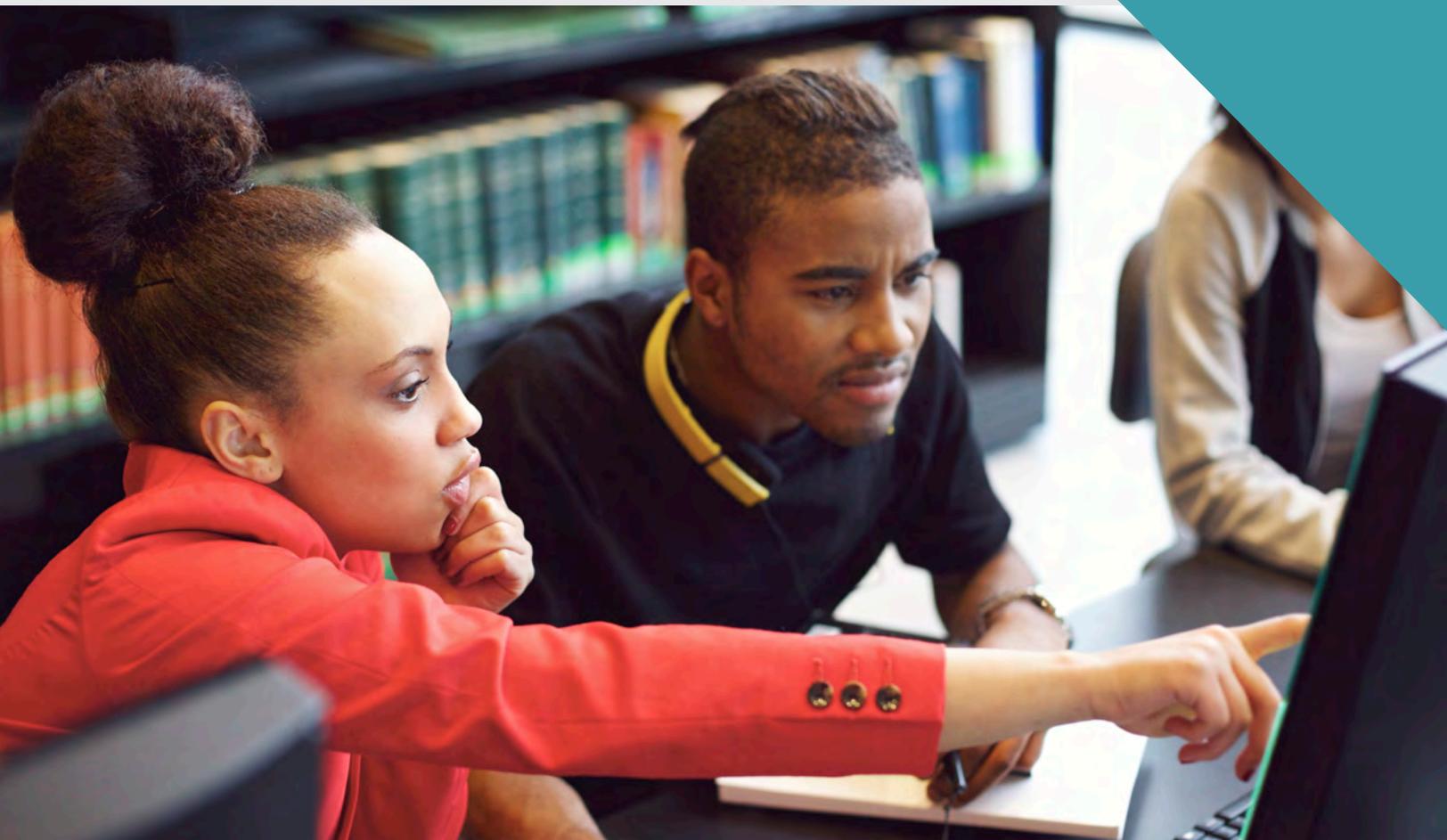
Culinary Arts
Hospitality and Tourism
Early Childhood Education
Cosmetology

ePathways *is* customized learning that results in our students being prepared for 21st Century globally competitive work

SCPS created ePathways as a symbol of its commitment that high school graduates will leave our district with meaningful diplomas and a clear pathway to high-demand, high-wage employment. SCPS graduates will have both a broad understanding of careers and enough exploration of specific interests to have a clear plan for their future. Students will also master 12 important skills identified by local employers and SCPS to ensure graduates are future ready for an evolving economy.

ePathways also aims to increase learning options for the students of SCPS. With more freedom to take courses and learn about what interests them, students are more likely to find their passion and explore career options that fit their interests and talents. These programs also provide valuable training and soft skills that can help students become successful in any career they choose.





What's your ePathway?

Programs of Enrichment, Exploration and Emphasis

Seminole County Public Schools offers students opportunities to find, explore and experience their ePathway through articulated programs at the elementary, middle and high school level. Students in select elementary schools can participate in programs of enrichment designed to support the students' interests and passions through academic instruction and enrichment opportunities. Middle school students are able to investigate their interests more deeply through programs of exploration that focus on relevant, high-demand career fields. Programs of emphasis allow high school students to target their learning around a specific topic to gain an in-depth understanding through a three or four year sequence of courses focused on an area of study. Students in these programs obtain industry certification and/or college credit. SCPS is proud to offer a choice option for some programs of emphasis, which allows students entering 9th grade to enroll outside of their zoned school. Students interested in participating in a high school program of emphasis should contact the CHOICES department for more information on eligibility requirements and application procedures.



**PROGRAM OF
EMPHASIS**

ePathways

Skills *for Future* **Ready** GRADUATES





LEARNING

Innovation & Imagination
Problem Solving
Information & Digital Literacy



INTERACTING

Communication
Collaboration
Interpersonal Skills



PARTICIPATING

Engaged Citizenship
International Outlook
Personal & Social Responsibility



GROWING

Self-Awareness
Adaptability
Perseverance



After School Learning

Seminole County Public Schools knows that learning is a 24/7/365 activity. Through the district's ePathways flexible scheduling initiative, students can access high-quality programs outside of the traditional school day. Students are also empowered to select exciting Career and Technical Education courses at other SCPS high schools and earn high school credit. After school programs can be taken in place of a class period on the student's schedule or as an 8th period course.



**AFTER SCHOOL
LEARNING**



After school courses allow students to pursue their interests and gain skills and experiences that could lead to a future career while also earning high school credit. Students can take courses at any high school offering an after school experience. Students are responsible for transportation to after school programs. Courses are typically available Tuesdays and Thursdays from 3:30-5:30 PM. Anticipated course offerings are listed below. Students interested in participating in an after school course should speak to their guidance counselor to enroll.



Automotive Collision Repair and Refinishing



SEMINOLE
HIGH SCHOOL



Automotive Service Technology



LYMAN
HIGH SCHOOL



OVIEDO
HIGH SCHOOL



Culinary Arts



LAKE HOWELL
HIGH SCHOOL



WINTER SPRINGS
HIGH SCHOOL



Cosmetology



LAKE BRANTLEY
HIGH SCHOOL



LAKE HOWELL
HIGH SCHOOL



Aerospace (Dual Enrollment)



SEMINOLE
HIGH SCHOOL



Drafting/CAD Design



LAKE MARY
HIGH SCHOOL



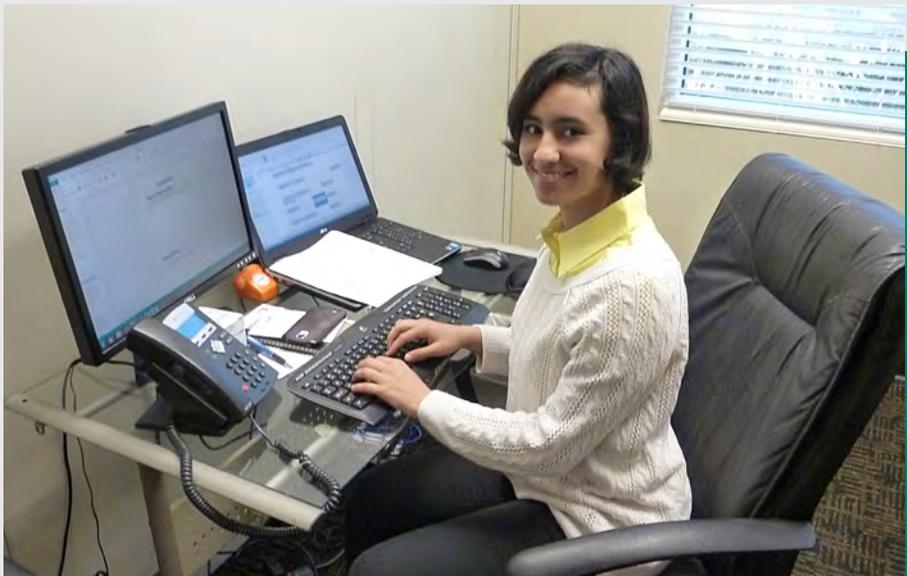
Interior Design



LAKE BRANTLEY
HIGH SCHOOL



OVIEDO
HIGH SCHOOL



The workplace is so different from school. You have to learn to work alone and find your motivation.

- **Maria M. Garcia, Graduate**
Crooms Academy of Information Technology Intern, Exam Plus



Workplace Learning

Connecting High School Students to Local Industry

Seminole County Public Schools is a leading economic driver in our community. For our graduates to be ready for college, careers, and citizenship, they need opportunities to deepen their classroom learning by applying their skills, passions, and interests to authentic workplace experiences. Through the facilitation of internships, employers provide access to elements of work that are not readily available to entry-level employees. Students benefit from early exposure to the world of work, and employers enjoy the energy and enthusiasm that student interns bring to their business.

Seminole County Public Schools has partnered with the Seminole County Regional Chamber of Commerce, the Seminole County Office of Economic Development and local employers to offer workplace learning opportunities to high school juniors and seniors. By providing students with authentic workplace experiences, employers empower their interns to develop skills and passions that will illuminate career pathways and strengthen workforce development. Additional goals for this partnership include cultivating interpersonal skills for students in realistic contexts, deepening content area knowledge through real world application and providing students with opportunities to develop an appreciation for the world of work.



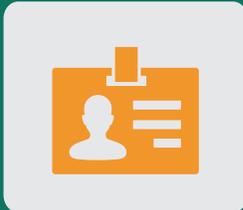
**INTERNSHIPS
FOR HIGH
SCHOOL CREDIT**



**JOB
SHADOWING
OPPORTUNITIES**



**CLASSROOM
CAREER
EXPERIENCE**



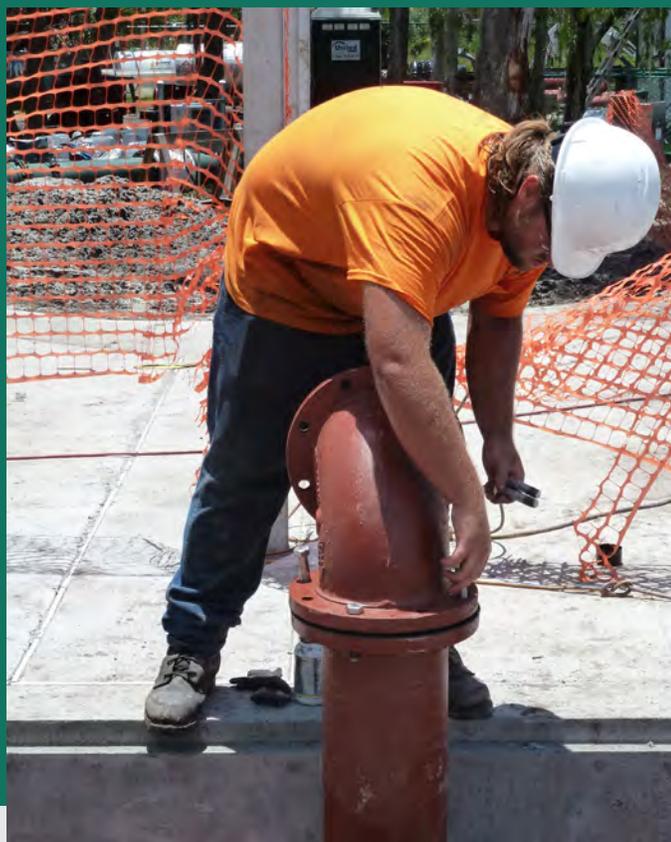
**TEACHER
EXTERNSHIP
OPPORTUNITIES**

Benefits of Workplace Learning

- » Through business partnerships, SCPS is able to respond to the changing demands of local industry and provide relevant learning opportunities to students.
- » The National Association of Colleges and Employers surveyed employers in 2010 and found that hiring interns decreases new employee turnover and increases overall retention rates.
- » Employers are able to cultivate talent of potential long term employees.
- » In 2013, researchers Shoenfelt, Stone and Kottke identified internships as an established mechanism to increase employability through the development of skills important to employers and the future workforce success of participating students.

I'm constantly moving!
It's a big change from
school.

- **John Archambault, Graduate**
Lyman High School
Intern, Wharton-Smith
Construction



Career and Technical Education

Economic projections indicate that, as the economy recovers and grows, industry certifications and specialized career training programs will become increasingly important. Nationwide, 35% of jobs will require education or training beyond high school, including at least:

- 1,000,000 associates degrees
- 745,000 certificates
- 760,000 industry certifications

Seminole County Public Schools is committed to providing students with access to education and training that will promote economic prosperity after high school by ensuring students are prepared for college and careers. Career and Technical Education (CTE) is an essential part of this mission because it allows students to get a head start on preparing for the workforce, making them more competitive for both college and employment after graduation.

CTE courses are invaluable resources for preparing students for life beyond high school including post-secondary training, college and employment.

Each of the district's CTE programs emphasize the development of students who are both college and career bound by allowing students to apply learning from content area classes such as Language Arts and Mathematics to real world problems. These courses serve to develop interpersonal skills such as collaboration and communication through industry focused projects and activities. CTE teachers also emphasize entrepreneurial skills in all programs.

Students develop employability skills by gaining experience with industry standard equipment and technology. In Seminole County, learning is not limited to the classroom. Students in CTE programs can take part in workplace learning opportunities such as field trips, presentations, internships and job shadowing experiences. Students also benefit from outstanding CTE instructors, many of whom have worked in the industry and have developed relationships with local employers.





What does Career and Technical Education mean for the future of Seminole County?

A trained workforce ensures robust economic development in Central Florida. CTE programs provide the foundational training necessary for students to continue their post-secondary education and career pathway. The availability of high-quality education is also a major factor in business relocation decisions, which brings even more high-demand, high-wage jobs to our community.

What are Industry Certifications?



Students participating in CTE programs can demonstrate their skills to potential employers by earning an industry credential. Many CTE programs provide students the opportunity to earn industry certifications by taking assessments developed by trade associations or industry groups. Certifications indicate mastery or competency in specific knowledge, skills or processes that can be measured against a set of industry standards. Many of these certifications are nationally recognized as credentials that prepare students for the globally competitive economy.



"I'm currently certified in Adobe Photoshop, Microsoft Word and PowerPoint. These have already allowed me to pursue freelance work as well as reach my future goal as a design manager."



"I am certified in Microsoft Word and PowerPoint. These programs are so often used in every career that I have a lot of options concerning future employment and a leg up on the competition."



"I have a ServSafe certification and, if I ever need to get a job at a restaurant, it will give me a benefit over other people who don't have this certification."

"ASE Auto Collision Repair certifications B2 through B6 have let me work in my choice of repair facilities and have led to many promotions."



"I have a Photoshop certification. This enables me to create things such as logos, which is very helpful when I plan on running my own company."



CAPE Digital Tools Certificates

Seminole County Public Schools is committed to ensuring all students have the skills and training needed to succeed in an evolving economy. CAPE Digital Tools certificates have been made available to recognize middle school students who have obtained skills necessary for their future academic work and careers. Digital Tool certificates are available in areas such as word processing, spreadsheets, multimedia presentations, digital arts, cybersecurity and coding.

Middle school teachers use engaging instruction and irresistible curriculum to infuse digital skills and empower students to develop these skills. Courses such as *iJourney* and *iConnect*, developed by SCPS for all middle school students, provide a rich digital learning environment that emphasize digital literacy, digital citizenship and computer fundamentals. These courses prepare students for Digital Tools certification, laying a foundation for success in high school and beyond.

SCPS Certifications and Courses

Certifications available in SCPS	2015-2016 High School Programs
Adobe Flash	Web Development
Adobe Dreamweaver	Digital Design Web Development
Adobe Creative Suite (Adobe Indesign, Adobe Illustrator, Adobe Photoshop)	Commercial Photography Digital Design Fashion Marketing Game/Simulation/Animation Hospitality and Tourism Technology Marketing Multimedia/Design Technology Digital Media Technology Web Development
AutoDesk Certified User - AutoCAD/AutoDesk Inventor	Modeling and Simulation Pathways to Engineering Technical Design Drafting
CompTIA A+	Network Support Services Technical Support Services
FAA Ground School	Aerospace
Manufacturing Skill Standards Council Certified Skills Technician	Automation and Production Technology
Microsoft Technology Associate (MTA)/Windows OS Fundamentals	Network Support Technology Support Services
Modeling and Simulation	Game/Simulation/Animation Modeling and Simulation
National Institute for Metalworking Skills Machining - Level 1	Automation and Production Technology
Small Unmanned Aerial Systems Safety	Aerospace
Home Builders Institute Bldg. Construction Tech.	Carpentry
ASE Collision Repair and Refinish	Auto collision repair and refinishing
Florida Automotive Dealers Association Technician	Automotive maintenance and light repair
OSHA	Carpentry Electrical
NCCER Carpentry - Level 1	Carpentry
Pre-engineering	Project Lead the Way
Robotics	Project Lead the Way

* Certifications and programs are subject to change based on state rules, course enrollment, etc.

■ - Dual Enrollment offered through Seminole State College

▲ - Dual Enrollment offered through Embry Riddle University

Certifications available in SCPS	2015-2016 High School Programs
Bio Technician Assistant	Bioscience
Certified EKG Technician	Allied Health Assisting Emergency Medical Responders Nursing Assistant
Certified Medical Administrative Assistant	Allied Health Assisting
Certified Nursing Assistant	Nursing Assistant
Quickbooks Certified User	Accounting Applications Entrepreneurship Finance
Microsoft Office Specialist	All Information Technology and Business Education Programs
Chief Architect User	Interior Design
Adobe Premiere Pro	Digital Design Multimedia TV Production
Certified Food Protection Manager (ServSafe)	Culinary Arts Culinary and Hospitality Early Childhood Education Hospitality and Tourism
Certified Front Desk Supervisor	Hospitality
Department of Children and Families - 30 Hour	Early Childhood Education



Crooms AIT	Hagerly High School	Lake Brantley High School	Lake Howell High School	Lake Mary High School	Lyman High School	Oviedo High School	Seminole High School	Winter Springs High School	
						•			Medical
							•		
							•		
							•		
		•			•				Business
		•	•						
•	•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	•	Arts
	•		•			•		•	Service
	•	•	•	•	•	•	•	•	
								•	
	•	•	•	•	•	•	•	•	





CAPE Academy

Florida Career and Professional Education Act - CAPE Academy

In 2007, the Florida Legislature created the Career and Professional Education (CAPE) Act to foster a statewide partnership between the business and education communities. This act was implemented in order to attract, expand, and retain employment in targeted, high-value industries and to sustain a strong, knowledge-based economy.

The CAPE Act seeks to ensure that education, industry, and workforce partners are working together to create new and meaningful activities for students. The objectives of the CAPE Act are:

- To improve middle and high school academic performance by providing rigorous and relevant curriculum opportunities that articulate to post-secondary level coursework and lead to industry certification
- To support local and regional economic development
- To respond to Florida's critical workforce needs
- To provide state residents with access to high-wage and high-demand careers



A key component of the CAPE Act is the establishment of state-approved industry certifications that meet the needs of Florida's employers. Students are able to earn industry certifications by completing a series of career courses offered through CAPE Academies and successfully passing tests for the specific area studied. CAPE Academies are small learning communities that combine career education and academic coursework. Each CAPE Academy works closely with a business advisory committee to ensure students and teachers are working with the current industry standards. Some CAPE Academy courses also result in progress towards college credit for Career Pathways, the Merit designation on the Florida High School diploma and the Florida Gold Seal Vocational Scholarship.



NAF Academy

The National Academy Foundation is a non-profit organization that provides industry focused curricula, work-based learning experiences and business expertise in the areas of Finance, Hospitality and Tourism, Information Technology, Engineering and Health Sciences.



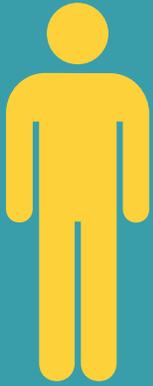
Seminole County Public Schools is home to four National Academies:

- Crooms Academy of Information Technology
- Lake Brantley High School Academy of Finance
- Seminole High School Health Academy
- Winter Springs High School Academy of Hospitality and Tourism

The Seminole Vision V Conference, attended by 105 community leaders in 2014, identified expansion of career and vocational education as its top priority "to build a sustainable, adaptable and productive workforce."

Breaking Barriers

Non-Traditional Roles in Career and Technical Education



7-8%

of Registered Nurses
are Male

Non-traditional careers are occupations in which more than 75% of employees are of one gender. Seminole County Public Schools encourages students to break barriers and pursue their dreams.



5.4%

of Welders
are Female



The difference in earnings for a female in a traditional career versus non-traditional can be staggering. Women in non-traditional careers often earn significantly higher wages than the traditional 'pink collar' careers others often pursue. For example, according to the Bureau of Labor of Statistics, the median salary for a construction manager in 2010 was \$86,860 per year.



Resources for Non-traditional Careers:

National Association of Women in Construction
www.nawic.org

American Assembly for Men in Nursing
www.aamn.org

Men Teach
www.menteach.org

Society of Women Engineers
www.swe.org

American Association of University Women
www.aauw.org

National Science Foundation
www.nsf.gov

Florida Gold Seal Vocational Scholars Award

Career and Technical Education (CTE) students are eligible to receive the Florida Gold Seal Vocational Scholars Award (GSV) to help fund their post-secondary education goals. This award is part of the Florida Bright Futures Scholarship program. Scholarships are based on high school academic achievement, community service, and achievement tests taken prior to enrolling in a post-secondary institution.

Students who receive the Florida GSV award may be funded for up to 100% of the number of credit hours or equivalent clock hours required to complete one of the following degrees or certifications at a Florida public or non-public educational institution:

- Applied Technology Diploma (ATD): funding for up to 60 semester hours (1,800 clock hours).
- Technology Degree Education programs: funding for up to 72 semester hours (2,160 clock hours).
- Associate of Science Degrees (A.S.)
- Associate of Applied Science Degrees (A.A.S.)
- College Credit Certificates (C.C.C)
- Career Certificate programs: funding up to the number of hours required for a specific degree (not to exceed 72 semester hours or 2,160 clock hours)

Students may be funded in additional certifications, diplomas, and/or degrees up to the maximum hours of funding. Students may receive funding in these career education programs up to their Bright Futures maximum hours of funding. Bright Futures Scholarship amounts and requirements may vary each year due to legislative changes. Visit the website below or speak with your school's guidance counselor for more details.



www.floridastudentfinancialaid.org



Vocational Student Organizations

Distributed Education Clubs of America (DECA)

DECA, a national association of marketing education students, provides teachers and members with educational and leadership development activities to merge with classroom instruction. DECA chapters attract students who are interested in preparing for entrepreneurial, marketing or management careers. DECA is not extracurricular; it is an integral part of the student's academic experience. Working hand-in-hand with the education and business communities, DECA's goal is for its student members to develop a "career success kit" to carry into their professional and personal lives after graduation.

SkillsUSA - VICA

SkillsUSA is a national organization for students in trade, industrial, technical and health occupations in public high schools, vocational centers, area vocational schools and two-year colleges. SkillsUSA provides quality education experiences for students in leadership, teamwork, citizenship and character development. It builds and reinforces self-confidence, work attitudes and communication skills. It emphasizes total quality at work, high ethical standards, superior work skills, life-long education and pride in the dignity of work. SkillsUSA also promotes understanding of the free-enterprise system and involvement in community service activities.

Health Occupations Students of America (HOSA)

Health Occupations Students of America (HOSA) is a national student organization with a two-fold mission to promote career opportunities in the health care industry and to enhance the delivery of quality health care to all people. The purpose of the HOSA organization is to develop leadership and technical skill competencies through a program of motivation, awareness and recognition.

Business Professionals of America (BPA)

The mission of Business Professionals of America is to contribute to the preparation of a world-class workforce through the advancement of leadership, citizenship, academic and technological skills. BPA is a dynamic organization of young people preparing for success as leaders in business, government and communities.



Career Pathways



Through Career Pathways, many Career and Technical Education programs are articulated with Seminole State College. Teachers from Seminole State College and SCPS, along with business and industry representatives, have developed a seamless curriculum that students begin in high school.

After successfully completing the secondary portion of the program and enrolling in Seminole State College, students receive college credit for the high school portion of the program. Students have the opportunity to obtain accurate, first-hand information about specific career paths and workplace success requirements with the inclusion of industry speakers, site visits, job shadowing and internships.

Because all students will go to work at some point in their lives, SCPS believes that students who learn technical skills along with academics will be better prepared for a successful future. SCPS works closely with businesses in Central Florida to ensure that students participate in relevant work-based experiences and to prepare them for both college and industry careers after graduation.



Why choose Career Pathways?

Career Pathways is a nationwide program designed to give high school students a head start on an A.S. degree or certificate program.

Students who earn a 3.0 overall GPA and a 3.5 GPA in their articulated program may qualify for a Florida Bright Futures Gold Seal Vocational Scholars Award

Assures that students experience a seamless transition from high school to college

Seminole State College waives the application fee for all articulated students

Opportunity to earn college credits while still in high school

Blend higher level technical courses with rigorous academic curriculum

Links high school and college programs



Business Software Applications

Credits Earned:
6
Potential Savings:
\$626.28 - \$939.42

Career Pathways College Savings

Up to \$1,000 in tuition savings available
depending on program track

Allied Health

Credits Earned:
3-12
Potential Savings:
\$313.14 - \$1000.00

Accounting

Credits Earned:
9
Potential Savings:
\$939.42

Digital Design

Credits Earned:
3
Potential Savings:
\$313.14

Interior Design Services

Credits Earned:
3-6
Potential Savings:
\$313.14 - \$626.52



Television Production

Credits Earned:
4
Potential Savings:
\$417.52

Digital Media/ Multimedia Foundations

Credits Earned:
3
Potential Savings:
\$313.14



Automotive Service Technology

Credits Earned:
3
Potential Savings:
\$313.14

Drafting and Design Technologies

Credits Earned:
3
Potential Savings:
\$313.14



Web Design

Credits Earned:
3-6
Potential Savings:
\$313.14 - \$626.28

Computer Programming

Credits Earned:
6-9
Potential Savings:
\$626.28 - \$939.42



Culinary Arts

Credits Earned:
6
Potential Savings:
\$626.28



Early Childhood Education

Credits Earned:
3-6
Potential Savings:
\$313.14 - \$626.28

Dual Enrollment

Dual enrollment is a program that allows students to enroll in post-secondary instruction and receive both high school and college credit. The dual enrollment program provides access to an advanced curriculum that is relevant to students' individual post-secondary interests. Students can earn credit towards high school completion and a career certificate, or an associate or baccalaureate degree at a Florida public institution. Tuition and instructional materials are free to public school students. Transportation is provided for SCPS students taking an afternoon course at the Sanford/Lake Mary campus in these programs:

- Business
- Criminal Justice
- Electrical
- Pharmacy Technician

Many other courses are available online and on high school campuses. See your guidance counselor for more information.



Seminole County Public Schools offers

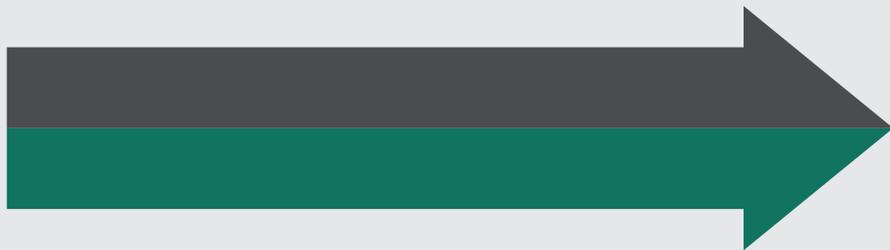
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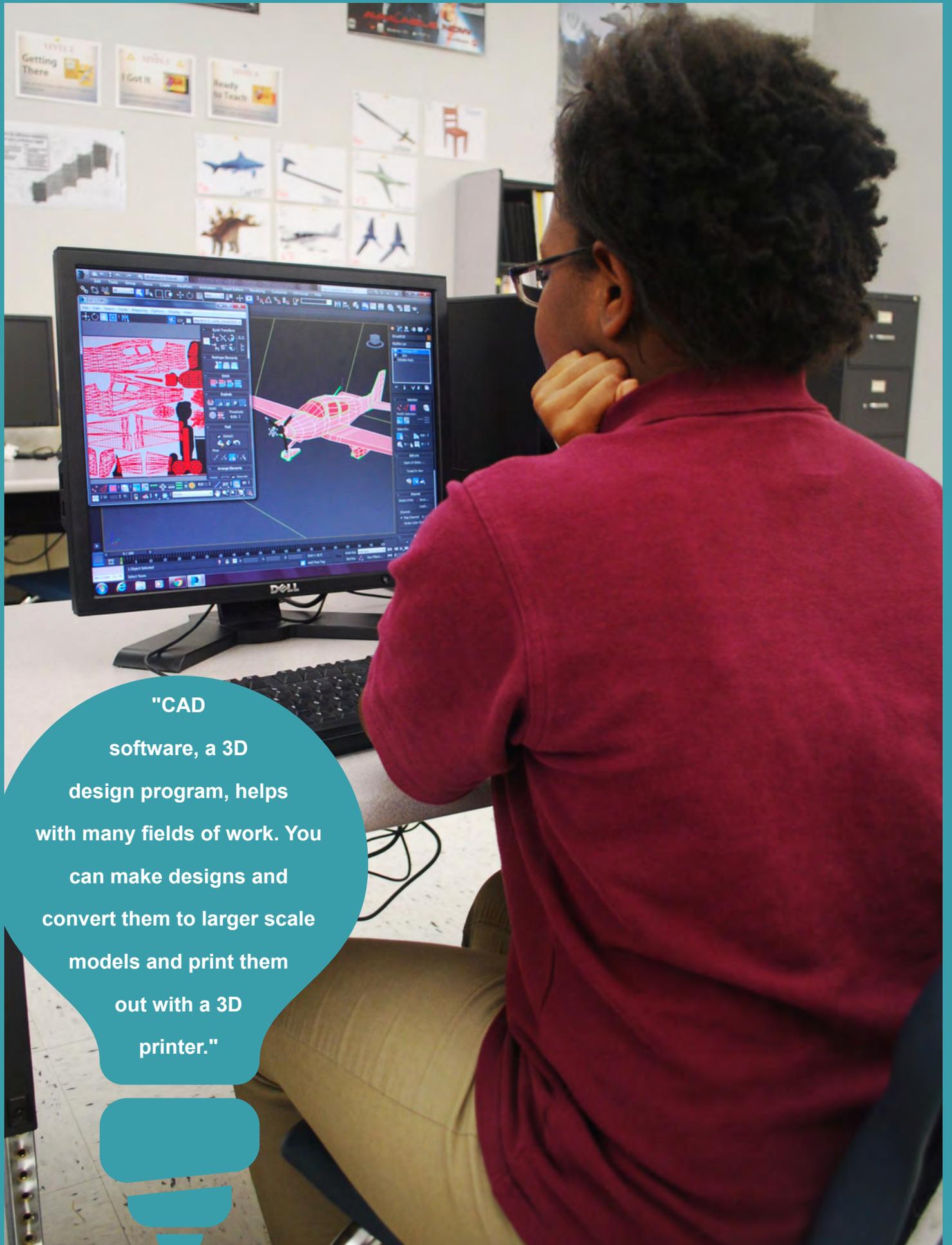
programs

designed to help

YOU

explore a wide variety
of career opportunities





"CAD

software, a 3D

design program, helps

with many fields of work. You

can make designs and

convert them to larger scale

models and print them

out with a 3D

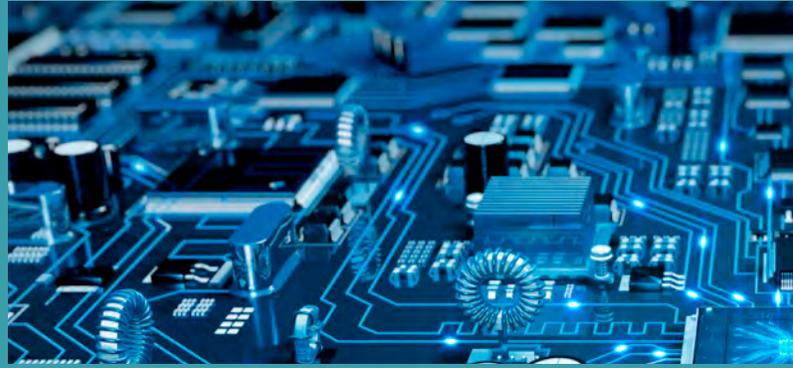
printer."



TECHNOLOGY

Innovate and Improve

Innovation is the cornerstone of the evolving economy. In a world of technological advancements, new ideas and new creations, students who enjoy living life on the cutting edge will find endless possibilities. Technology in CTE is all about exploring where high-tech meets hands-on. So buckle-up and start innovating!



Modeling and Simulation

Florida is a major center for modeling, simulation, and training development. The state is home to one of the world's largest modeling and simulation clusters, with over 300 companies and 16,000 professionals. Florida companies are building simulation and training systems for defense, medical, entertainment, education, and other sectors. Hagerty High School's Program of Emphasis in Modeling, Simulation and Analysis provides students with a broad understanding of the many aspects of Modeling and Simulation that make this field so exciting. Students in this program develop the necessary skills to utilize industry tools to solve real world problems. Hagerty High School is currently working closely with local industry and higher education partners to implement curriculum and projects that are on the cutting edge.

In the modeling and simulation program, students learn to navigate and create detailed models and virtual simulations in programs such as Auto Desk, Unity, Unreal Engine, Blender and more! Students have the opportunity to earn a certification in modeling and simulation and obtain entry level internship positions in the simulation industry. These pathways have the potential to lead to high-paying and challenging careers in diverse fields related to modeling and simulation technologies and project management.

The field of modeling and simulation requires skills in innovation, technology, and design. It takes patience and practice, but the effort is worth the result. Every time you make a new model, animation, or game, you start with a blank slate and you turn that empty space into something beautiful and amazing!

CAREER OPPORTUNITIES

Computer Programmer
(Average Salary \$55,750)

Mathematician
(Average Salary \$77,050)

Modeling Analyst
(Average Salary \$68,290)

Simulation Analyst
(Average Salary \$78,860)

Software Developer
(Average Salary \$66,200)



INDUSTRY
CERTIFICATIONS



choices
SEMINOLE COUNTY PUBLIC SCHOOLS

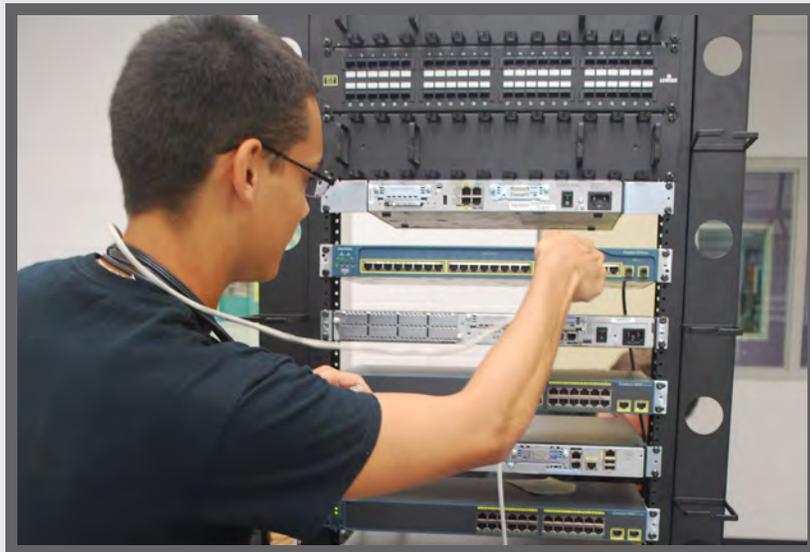


PROGRAM OF
EMPHASIS



Information Technology

Companies and organizations need IT employees to design applications, create or administer websites, coordinate a company's information security, and evaluate and implement the appropriate computer network architecture to meet their goals. Information technology employees are in a growing and always changing field. People in the IT field work with computer hardware, software, multimedia, or network systems. They also design new computer equipment, repair or connect systems, or work on new computer games. Employment numbers are already high within the tech industry, but IT is expected to be one of the fastest growing fields through 2022. Opportunities are endless for those who enjoy creating, powering, and supporting our electronics and information systems. The information technology industry is a dynamic and entrepreneurial field that continues to have a revolutionary impact on the economy and on the world. Crooms Academy of Information Technology is the SCPS Magnet for IT, and many high schools also offer courses in Applied Information Technology, Business Computer Programming and Java Development and Programming.



CAREER OPPORTUNITIES

Computer Systems Analyst
(Average Salary \$56,070)

Database Admin
(Average Salary \$68,840)

Help Desk/Tech Support
(Average Salary \$37,990)

IT Director
(Average Salary \$101,395)

Network Engineer
(Average Salary \$66,560)



INDUSTRY
CERTIFICATIONS



CAPE ACADEMY



CAREER PATHWAYS

Advanced Manufacturing



Seminole County Public Schools is committed to ensuring that students have the skills, experiences and education needed to excel in tomorrow's economy. With local and national emphasis on the economic importance of manufacturing, SCPS has partnered with regional employers and community leaders to create the district's first Career & Professional Education (CAPE) Academy in High-Tech Manufacturing at Lake Mary High School. The manufacturing program will serve as an innovation space where students are empowered to identify opportunities, design solutions, build prototypes, produce multiple copies, and improve the product through quality processes, all while learning key principles of advanced manufacturing, mechatronics, and entrepreneurship.

At the national level, there have been numerous calls to action for an expansion of manufacturing education. Jennifer McNelly, President of The Manufacturing Institute, has argued that, "Manufacturers cannot win the race to compete in the global marketplace without the talent they need. Yet skill shortages continue to impact all stages of manufacturing – from skilled production to engineering."

CAREER OPPORTUNITIES

Through the support of community and business partners and the curricular guidance of the Manufacturing Skills & Standards Council (MSSC) and National Institute of Metalworkers Skills (NIMS), SCPS offers students opportunities to learn industry relevant skills and earn certifications while gaining real world work experience to help bridge the manufacturing talent gap and accelerate students into the future of high-tech manufacturing.

Manufacturing impact in Central Florida and beyond:

- Florida's manufacturing sector accounts for approximately 5 percent of "non-farm, non-government" employment in the state.
- The average annual wages paid in Florida's manufacturing sector are higher than the state average annual private sector wage.
- Currently there are 389 manufacturing businesses in Seminole County and nearly one-third of these firms employ 10 or more workers.

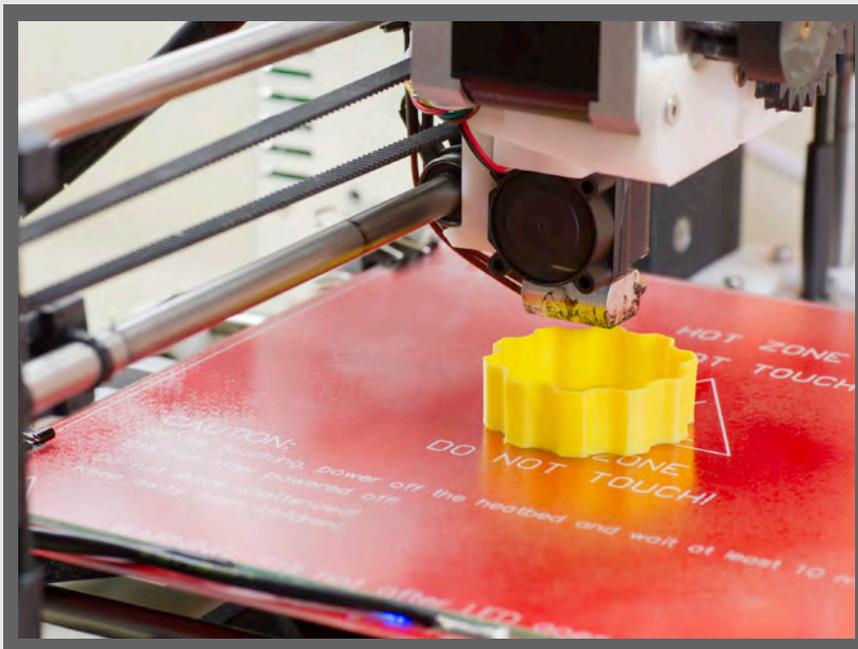
Inventory Coordinator
(Average Salary \$39,250)

Manufacturing Process Engineer
(Average Salary \$64,170)

Manufacturing Technician
(Average Salary \$44,120)

Production Manager
(Average Salary \$64,180)

Production Planner
(Average Salary \$51,870)





"Collision repair & refinish prepares the student for entry-level positions into the auto collision repair industry and provide multiple choices after graduation. They can enter collision repair facilities, work as an appraiser for auto insurance companies (with more schooling), or work for paint manufacturers as a representative and many more options."



BUILD

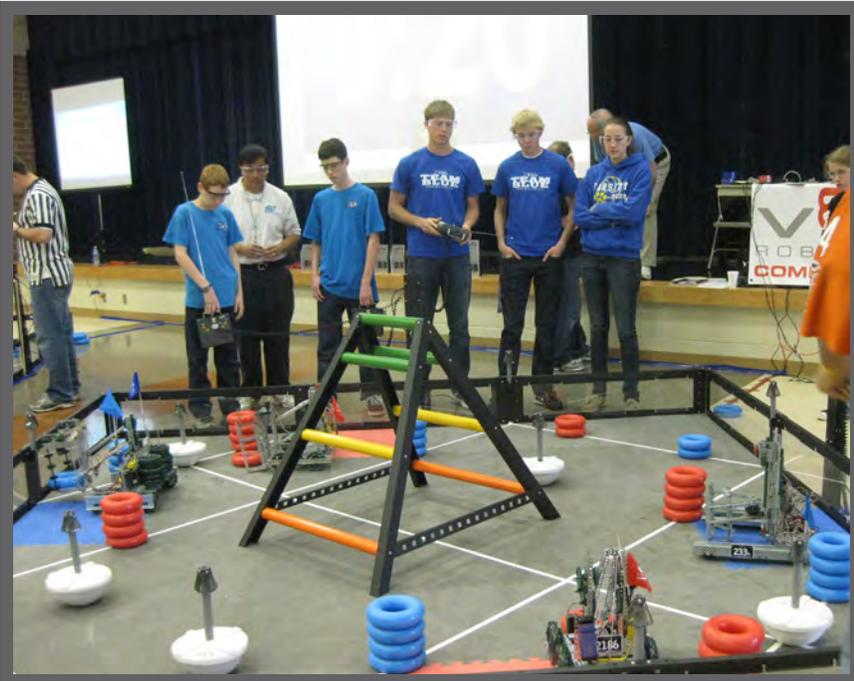
Plan and Construct

If you dream of designing, planning, managing, building or maintaining the structures where we live, work and play, then exploring Career and Technical Education courses in building may be for you! Whether you enjoy working on cars, planning buildings or towns, or working with tools to construct things, these programs will help you develop a blueprint for your future and a foundation for success!



Engineering: Project Lead the Way

Lyman High School's Project Lead the Way (PLTW) Engineering Magnet is more than just another high school engineering program. It is about applying science, technology, engineering and math (STEM) to solve complex, open-ended problems in a real world context. Students focus on the process of defining and solving a problem, not on getting the "right" answer. They learn how to apply STEM knowledge, skills and habits of mind to make the world a better place through innovation. PLTW Engineering programs provide opportunities to develop highly transferable skills in collaboration, communication, and critical thinking, which are relevant for any coursework or career.



Career Opportunities

Aerospace Engineer
(Average Salary \$76,575)

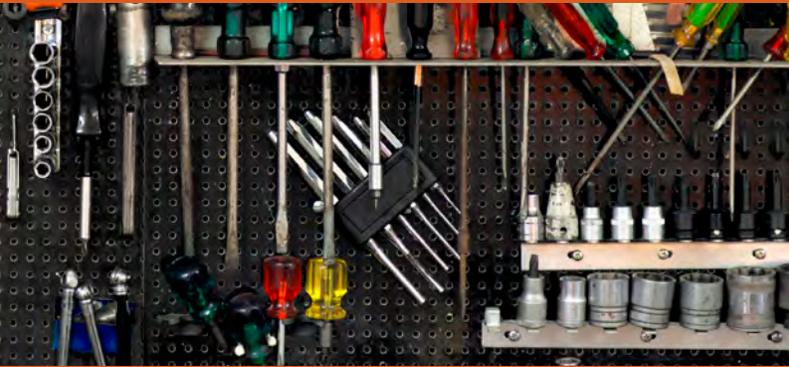
Civil Engineer
(Average Salary \$83,350)

Comp Hardware Engineer
(Average Salary \$70,230)

Environmental Engineer
(Average Salary \$70,890)

Mechanical Engineer
(Average Salary \$79,880)





Drafting/CAD

Architecture is the work of designing, creating and problem solving. Architects use science, technology, engineering and math to assess problems and create solutions. This can include the construction of new bridges or buildings, the development of new materials or the invention of new technologies. Engineers work with building materials, electronics and even the environment, depending on their field of work. Each of these fields relies heavily on the collaboration of individuals with a broad set of skills and from a variety of educational backgrounds - from engineers and architects to Draft/CAD Technicians and surveyors. If you want to be a part of building the future, Drafting/CAD might be for you! These programs are offered at Lake Mary and Lake Brantley. Students in this program will have the opportunity to earn nationally recognized industry certifications. Lake Mary also offers an after school course.



Career Opportunities

Architect

(Average Salary \$57,450)

Cartographer

(Average Salary \$48,720)

Construction Manager

(Average Salary \$73,485)

Survey/Map Technician

(Average Salary \$38,600)

Computer Systems Analyst

(Average Salary \$56,070)



INDUSTRY
CERTIFICATIONS



CAREER PATHWAYS



AFTER SCHOOL
LEARNING

Automotive Service Technology



The automotive industry is big business in the United States – so big, in fact, that one out of seven Americans is employed in the field in some capacity! The United States is the world’s second largest marketplace for motor vehicles due to the size and affluence of its population.

There are career opportunities for students who want to be technicians, body repairers and spray painters. Careers are also available in management, sales and training. The motor vehicle is an intricate series of systems, subsystems and components, all assembled into a final product. No matter what career path you choose in the automotive industry, there are many options and exciting opportunities to learn a wide range of skills. This may include everything from technical skills and how to use sophisticated diagnostic equipment, manuals, and databases to how to work in teams, offer effective customer service, and run a small business.

Automotive Maintenance and Light Repair, offered at Lyman, Oviedo and Seminole, helps students build and refine their skills while working towards careers in the automotive industry. These programs offer a sequence of courses that provide coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers. These programs are NATEF/ASE certified and so are the instructors. Students will also have an opportunity to earn state recognized industry certifications as well as dual enrollment credit with Seminole State College.

Collision Repair & Refinish

CAREER OPPORTUNITIES

Have you ever wanted to make that old car look like new again? Did you ever want to know how those wrecked cars get repaired? How about painting custom colors to make your car look cool?

The Seminole High School Collision Repair and Refinish program prepares, trains, and educates students to enter the workforce upon graduation as productive community members. Collision Repair & Refinishing offers five levels of certified instruction in four years. The program is NATEF/ASE certified in structural repair, non-structural repair & refinishing. Students work with industry standard equipment to master the trade of automotive repair and refinishing.

Students first learn about the construction, history, and material composition of today's automobiles. Opportunities to use air tools, body shop specialty tools and spray equipment are included in the program. Students then apply this knowledge by repairing panels, fenders, doors, and hoods. Year one finishes with four months of welding experience.

Level two students learn basic electrical and mechanical systems including suspension, steering systems, brake systems, transmissions and motors. In levels three through five, students master dent repair, priming and painting. Students will also build their entrepreneurship skills by learning how to write estimates to maximize their earning potential beyond high school.



Auto Body Technician
(Average Salary \$44,020)

Auto Service Advisor
(Average Salary \$37,105)

Car Audio Installer
(Average Salary \$30,500)

Bus/Truck Mechanic
(Average Salary \$43,440)

Mechanic Auto Tune Up
(Average Salary \$39,065)



INDUSTRY
CERTIFICATIONS



CAPE ACADEMY



CAREER PATHWAYS



AFTER SCHOOL
LEARNING

CAREER OPPORTUNITIES

Construction

Building Inspector
(Average Salary \$49,160)

Carpenter
(Average Salary \$36,000)

Construction Worker
(Average Salary \$38,270)

General Contractor
(Average Salary \$72,750)

Plumber
(Average Salary \$38,300)



Exceptional craftsmanship and a desire to build are the hallmarks of the construction industry. Construction in the 21st century requires an attention to detail, a willingness to work with others and knowledge of the tools and methods of modern construction. As construction continues to grow and drive the Florida economy. The demand for qualified construction professionals in the field of residential and commercial structures will increase. Advances in green technology will provide even greater opportunities to build the future.

Students who have an interest in building can pursue a series of courses in construction. In these courses, students will develop academic knowledge, higher-order reasoning, problem solving skills, work attitudes, general employability skills, technical skills and on-the-job safety responsibilities. Students can take the skills and knowledge learned in these courses to the next level by pursuing industry certifications or workplace learning experiences. All skills and content are delivered by experienced instructors who hold nationally recognized industry certifications. Courses are offered in carpentry, electrical and horticulture science/services.



Academy of Construction Technology



The Electrical and Carpentry Programs are part of the Academy of Construction Technologies (ACT) Program, which is a certified state pre-apprenticeship program. The ACT Program offers students the opportunity to begin a career in high school, integrating academics and paid work experience.

ACADEMY OF CONSTRUCTION TECHNOLOGIES:

- Don't leave high school with just a diploma—leave with a job! ACT develops a well-trained workforce in the construction industry by combining academics and a paid work-site experience when available. ACT offers students the opportunity to begin a career in high school in carpentry or electrical.

ELIGIBILITY & OPTIONS: All Seminole County students entering 11th and 12th grade with the necessary number of credits to be on track for graduation at the end of their senior year can apply for the program.

- Carpentry: Available to students at Lake Brantley High School and Winter Springs High School who meet the above criteria and have a 2.0 GPA.
- Electrical: A dual enrollment program offered at Seminole State College and open to students at all SCPS high schools who meet the above criteria and have a 2.5 GPA.



**According to the
United States
Department of
Labor, by the year**

2020 jobs in healthcare will grow by 20%.

**From doctors, nurses and pharmacy
technicians to dentists, therapists and lab
technicians, 21 of the 30 fastest growing
occupations in
the US are in the
health care field.**



MEDICAL

Research and Heal

The health care industry is projected to grow both in numbers and career diversity in the coming years. If you have a desire to help others through the application of science, then medical programs in CTE may be right for you. Developing the skills and experiences to research and heal will help graduates of these programs make a positive impact on the health care industry and the patients who participate in it.



Bioscience

Oviedo High School hosts the SCPS Program of Emphasis in Bioscience. Florida is one of the fastest growing biotech centers in the U.S. and is home to more than 9% of the nation's 1,450 bio-tech firms including:

- The Max Planck Institute of Bio-Imaging
- VGTI Florida (Vaccine and Gene Therapy Institute)
- Hussman Institute for Human Genomics
- Scripps Research Institute Florida
- Sanford Burnham Research Institute
- Torrey Pines Institute for Molecular Studies

Bioscience includes more than just Biology. Biotechnology encompasses all branches of science, technology, engineering and math (STEM) dealing with the structure and behavior of living organisms. By understanding the function of living things, products can be made or modified for a specific use to benefit society.

Reasons to pursue Biotechnology in Florida:

- Florida ranks third in the nation for its number of FDA recognized medical device establishments, trailing number two New York by a mere six companies.
- The UCF College of Medicine houses the Burnett School of Biomedical Sciences, which includes a research intensive medical school that ranges from laboratory “bench” science to patient bedsides.
- The Research Park at the University of Central Florida is one of the country's top 10 research facilities.
- Florida's High Tech Corridor employs more than 9,100 people in Bioscience with an average salary of nearly \$49,000 annually.

Career Opportunities

Biochemist

(Average Salary \$54,020)

Biomedical Engineer

(Average Salary \$62,660)

Crime Lab Analyst

(Average Salary \$40,170)

Pharmacist

(Average Salary \$112,560)

Pharmaceutical Sales

(Average Salary \$66,810)



INDUSTRY
CERTIFICATIONS



PROGRAM OF
EMPHASIS



Health Academy

Health care and medical occupations are projected to grow faster than other occupations through 2022, accounting for nearly one-third of the total projected increase in jobs in the US. The health care field offers a world of possibilities that is growing and evolving every day. Employers will be looking for students with training in this field.

The Academy of Health Careers at Seminole High School is a member of the National Academy Foundation (NAF) and has been recognized by the Department of Education as one of the Best Practice Academies in the state of Florida. Seminole High School offers a comprehensive preparation and uniquely relevant curriculum for students who plan to pursue a career as a healthcare professional. Courses are taught by experienced medical professionals. Students explore multidisciplinary healthcare occupations and current biotechnology combined with the opportunity to get hands-on experience through clinicals at local hospitals and other healthcare facilities. The Academy of Health Careers serves as a foundation for pursuing careers in nursing, emergency medical technician, personal trainer, dentistry, dietician, hematologist, physical or occupational therapist, physician, pharmacist, radiologist and more.

Benefits for students:

- Clinical rotations that integrate state curriculum standards with real life experiences.
- Earn nationally recognized industry certifications: CNA (Certified Nursing Assistant), CMAA (Certified Medical Administrative Assistant), CET (Certified EKG Technician).
- Earn CPR certification through the American Heart Association at Basic Life Support level.
- Award-winning faculty with health care experience and credentials.
- State-of-the-art technology and health laboratories to facilitate student learning.

Career Opportunities

Dental Hygienist

(Average Salary \$61,110)

EMT

(Average Salary \$32,100)

Physical Therapist

(Average Salary \$82,980)

Registered Nurse

(Average Salary \$62,060)

Surgeon

(Average Salary \$237,870)



INDUSTRY
CERTIFICATIONS



CAPE ACADEMY



CAREER PATHWAYS



"It is great that I can take the derivative of functions and analyze classic literature, but when I'm sitting down and trying to do my taxes or trying to get a job, it is the skills I've learned in my business classes I will rely on."



BUSINESS

Manage and Sell

Whether you are interested in starting your own business, following Wall Street or selling the next big product to the masses, Career and Technical Education courses in business can help prepare you to take on the global economy in a major way! Our business programs have deep connections to local employers, who work with teachers to ensure that instruction is well aligned with industry needs and practices. Programs in marketing, entrepreneurship, management and accounting can help students develop valuable skills that will prepare them for a future in the world of business and beyond.



Marketing

When you surf the web, watch television or flip through the pages of a magazine, you will see the work of marketers and advertisers. Professionals in the marketing industry are the brains behind ads and campaigns, and they're responsible for bringing products and services into the public awareness. Students interested in helping businesses make the most of their products and services might want to consider a future in marketing.

Lyman High School has extensive course offerings in marketing, including fashion and sports marketing. Students who pursue a series of courses in marketing will get a head start on their futures in business while preparing themselves to take on the creative work of marketing. Each program offers a three credit program of study with a capstone course in Business Ownership. Programs are offered in: marketing education, fashion marketing and sports/entertainment marketing.



Career Opportunities

Account Manager
(Average Salary \$49,880)

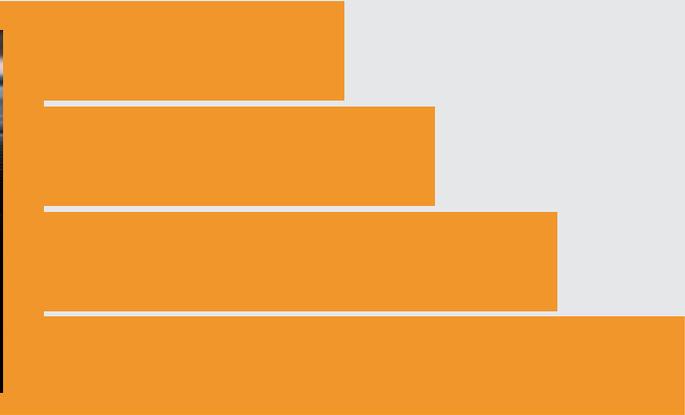
Creative Director
(Average Salary \$81,690)

Director of Marketing
(Average Salary \$78,710)

Event Coordinator
(Average Salary \$37,430)

Market Research Analyst
(Average Salary \$48,720)





Management

Management programs will help you learn what it takes to be successful in business, manage an office, or work in human resources. Many of the foundational skills required by the businesses of today rely on mastery of software including Microsoft Office, QuickBooks, and Adobe Creative Suite. A majority of written correspondence in industry depends on the application of Word, Excel, Access, Outlook, SharePoint and PowerPoint software to communicate and track products and finances. Seminole County's management courses are committed to giving students the opportunity to earn industry certifications in the essential software of modern business. Students also have the chance to complete projects that focus on the development of interpersonal communications, conflict resolution, leadership, decision making, problem solving, supervisory and employability skills, diversity awareness, telephone techniques, and technical applications in the customer care environment.

Whether you're going to college or directly into the workforce, you will be expected to have job skills. Start your pathway to a great career by learning critical skills in the world of work. Programs are offered in: administrative office specialist, business management and analysis and work-based education.

Career Opportunities

Hotel Manager

(Average Salary \$43,185)

Health Services Manager

(Average Salary \$63,430)

Property Manager

(Average Salary \$44,350)

Purchasing Manager

(Average Salary \$62,205)

Regional Sales Manager

(Average Salary \$75,200)



Finance and Accounting



Finance and Accounting can be the key to opening doors in businesses across industries from Orlando to Los Angeles. The skills from the field of finance can serve as the foundation for a career as a certified public accountant, employment in finance or corporate management, government work or even your own business. No matter what career you decide to pursue, accounting and finance will open doors!

Lake Brantley High School offers students an exciting opportunity as an SCPS Program of Emphasis in Finance. The Lake Brantley Academy of Finance connects high school students with the world of financial services and accounting by offering a curriculum that covers banking and credit, financial planning, global finance, securities, insurance, accounting, and economics. The Lake Brantley Academy of Finance is a member of the National Academy Foundation, which includes over sixty major corporate sponsors.

Academy of Finance students have the opportunity to earn Florida Ready to Work credentials, EverFi Financial Literacy Certification, and industry certification in MOS and QuickBooks. Students also benefit from InVEST, founded in 1970 as a grassroots program that pairs educators with representatives from the insurance industry to provide insurance instruction, exposure to an insurance environment and career opportunities for students.

Students enrolled in the Academy may apply to work as tellers in the Brantley Branch of Central Florida Educators' Federal Credit Union. Students receive one elective course credit. This is the only credit union on a high school campus in Seminole County.

Accounting course options are also offered at Lyman High School for students interested in pursuing the Accounting/ Finance pathway.

Entrepreneurship

CAREER OPPORTUNITIES

Entrepreneurs are people who are prepared to sacrifice their own time and effort to turn a good idea into a marketable product. Entrepreneurs are persistent people who see risks as opportunities. Successful entrepreneurs have the ability to develop an idea and take it through the process to become a marketable product or service. If you love shows like *Shark Tank* and are interested in being your own boss, scheduling your own contracts and managing your own money, you may have what it takes to be an entrepreneur.

Lake Howell High School is home to the district's Program of Emphasis in Entrepreneurship. Students who participate in the program are introduced to the concept of entrepreneurship while also developing the fundamental knowledge and skills necessary to start and operate a business.

Areas of focus include:

- Structure of organizations
- Basic economic principles of the entrepreneur
- Entrepreneurial behavior and ethics in business
- Idea generation and start-up strategies
- Applications of marketing, accounting, and financing to a start-up
- Types and sources of government regulations and taxation that may affect a business
- Communication and technology skills used in entrepreneurship
- Components and development of a business plan
- Branding a business

In addition to the Lake Howell program, all Seminole County high schools are expected to infuse entrepreneurship into career and technical education courses.



Auditor
(Average Salary \$51,750)

Budget Analyst
(Average Salary \$55,480)

Financial Officer
(Average Salary \$55,480)

Investment Banker
(Average Salary \$81,560)

Tax Preparer
(Average Salary \$36,530)



CAPE ACADEMY



CAREER PATHWAYS



INDUSTRY CERTIFICATIONS



choices
SEMINOLE COUNTY PUBLIC SCHOOLS

Attorney
(Average Salary \$76,430)

Business Consultant
(Average Salary \$67,250)

Financial Advisor
(Average Salary \$50,740)

Public Relations Specialist
(Average Salary \$44,380)

Recruiter
(Average Salary \$45,225)



"It sparks my passion and creativity to make things that are truly spectacular."



ARTS

Design and Create

What's your creative passion? Are you interested in digital media, fine art or design? Career and Technical programs in the arts can prepare students to pursue jobs that focus on both the practical and creative aspects of designing and creating. Students in these programs will learn to use their artistic talents to propel them on a career pathway for post-secondary success.



Television Production

Television production and photography are visual art forms that have many different types of career possibilities. Creating shows for television requires producers, writers, directors, cinematographers, camera operators, actors, art directors, sound supervisors, photographers and editors. Hard work, long hours and a great attitude are required for any of these rewarding careers!

These visual arts programs offer a sequence of courses that provide coherent and rigorous content that aligns with challenging academic standards and relevant technical knowledge needed to prepare students for future education and careers. The content of these programs includes communication skills, leadership skills, human relations employability skills and safe work practices. Coursework includes many projects where students can integrate creativity with technical skills. Many instructors come from the field with industry experience and certifications. Students have the opportunity to earn industry certifications and dual enrollment college credit from Seminole State College. All high schools offer television production. Commercial photography is offered at Lake Mary and Winter Springs.



Career Opportunities

TV/Cable Director
(Average Salary \$51,870)

Broadcast Technicians
(Average Salary \$38,170)

Camera Operator
(Average Salary \$36,740)

Radio/TV Announcer
(Average Salary \$33,240)

TV Host
(Average Salary \$51,590)



INDUSTRY
CERTIFICATIONS



CAPE ACADEMY



CAREER PATHWAYS



Interior Design

Interior designers are creative, imaginative and artistic. They are also disciplined, organized and skilled business people. Interior designers must combine aesthetic vision with practical skills and knowledge to develop design solutions that are visually appealing, technically sophisticated and functionally satisfying.

In Seminole County's interior design courses at Hagerty High School, Lake Brantley High School, Oviedo High School and Seminole High School, students have the opportunity to put creativity and sense of style to good use doing hands-on projects on campus and in the community while learning the fundamental skills of the trade. Students get to plan, design, and furnish interiors of residential, commercial and industrial buildings. Students must be able to formulate designs that are not only attractive but also functional with respect to clients' needs.



Career Opportunities

Interior Design Director
(Average Salary \$83,760)

Interior Designer
(Average Salary \$45,190)

Kitchen/Bath Designer
(Average Salary \$41,280)

Automotive Designer
(Average Salary \$78,390)

Visual Merchandiser
(Average Salary \$35,320)



INDUSTRY
CERTIFICATIONS



CAPE ACADEMY



CAREER PATHWAYS



AFTER SCHOOL
LEARNING

Digital Media



Careers in digital arts involve creating, designing and producing a wide variety of print and interactive products and services using cutting-edge equipment and software. Just about every industry needs the media created by digital artists such as logo, brochure and publication design, web site design and coding, video and television, and gaming and animation. People who go into these fields like to create designs, concepts and layouts to advertise or market a product or service. Designers develop brochures, multimedia presentations, web pages, promotional products, technical illustrations, and computer artwork for use in products, technical manuals, literature, newsletters and slide shows.

Depending on which digital arts program you participate in, you will be able to:

- Use computer software to manipulate and generate new images.
- Learn about composition and layout, design and illustration.
- Design, build and maintain websites using authoring or scripting languages, content creation tools, management tools and digital media.
- Design complex graphics and animation.
- Make objects or characters appear lifelike by manipulating light, color and transparency.
- Apply story development, directing, cinematography, and editing to animation to create storyboards that show the flow of the animation and map out key scenes and characters.
- Create multimedia campaigns, handle budgeting and scheduling, and assist with such responsibilities as production coordination, background design and progress tracking.
- Develop project management skills to prioritize needs, resolve conflicts, develop content criteria, or create solutions.
- Write and evaluate code that meets industry standards and is valid, properly structured, and compatible with browsers, devices or operating systems.
- Analyze user needs to determine project scope and technical requirements.

CAREER OPPORTUNITIES

If these opportunities sound exciting to you, then you might be interested in taking courses in Digital Design, Web Development, Digital Media/Multimedia Design, Game, Simulation and Animation Visual Design, Commercial Art Technology or Marketing.

Digital Arts programs lead to college credit at Seminole State College, Bright Futures Gold Seal Scholarships and a wide variety of nationally recognized industry certifications such as Adobe Photoshop, Dreamweaver, Flash, InDesign, and Illustrator, Microsoft Office Specialist, Microsoft Technology Associate and more.

Animator

(Average Salary \$50,660)

Art Director

(Average Salary \$58,770)

Graphic Designer

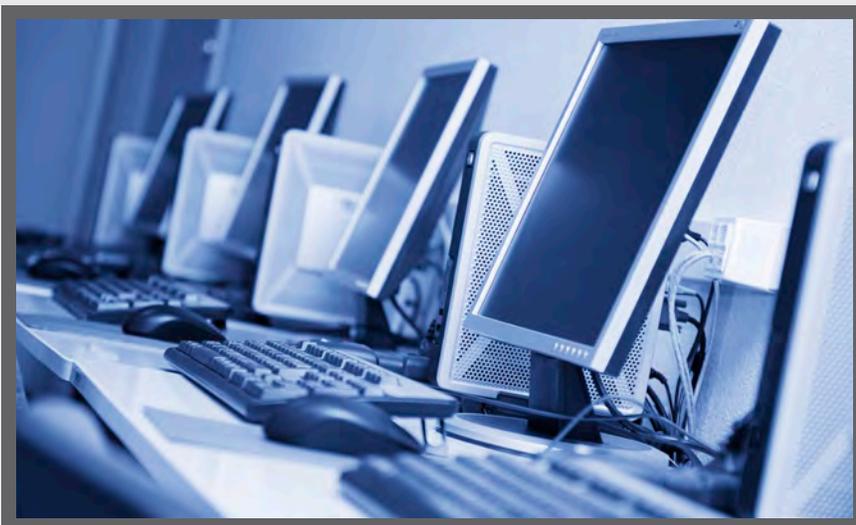
(Average Salary \$44,060)

Photographer

(Average Salary \$29,860)

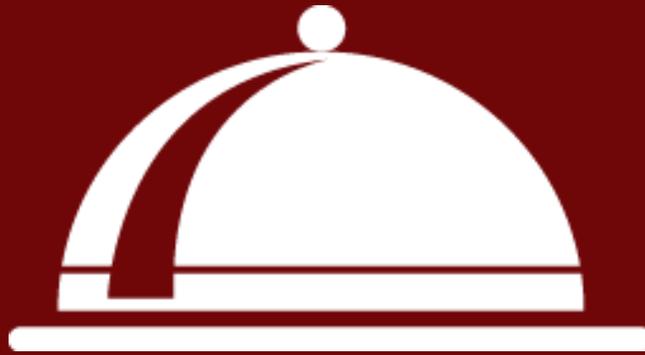
Web Developer

(Average Salary \$53,675)





"The hospitality and tourism program prepares students for the world of work because the students get hands on experiences at field trips and other events planned for them. The hospitality and tourism program gives students useful tools to use when they are seeking a job or career opportunity in the future."



SERVICE

Connect and Contribute

Are you driven by a desire to connect with others? Do you enjoy working with and helping those around you? If you do, you may have a future in Florida's fastest growing industry. The service industry emphasizes entrepreneurship, interpersonal skills and adaptability. These skills can be applied across a variety of industries, serving students well in whatever future they pursue.



Culinary Arts

Students who seek to become future leaders in the hospitality, tourism and food service industries should take advantage of the culinary arts programs offered by Seminole County Public Schools. The food service industry is the largest employer in Florida with more than 1,000,000 employees in the field.

- VISIT FLORIDA estimates over 23 million visitors come to Florida each year; our area desperately needs trained, qualified workers for food and beverage positions.
- Employment projections show a 17,000 employee shortfall over the next 5 years in the hospitality industry because new growth has created an increased need for qualified food service employees.

The exciting and diverse world of culinary arts can take you anywhere in the world -- and your training can begin in high school. The Culinary Arts sequence of courses can be the best first step for an aspiring chef, restaurant manager, or baker.

Culinary arts courses prepare students for employment or advanced training in the food service industry. The ProStart curriculum, developed and supported by the National Restaurant Association, guides students through basic food skills, safety and sanitation, recipe creation and conversion, equipment and tools, nutrition and much more. Students will learn about the myriad of career options available to those with culinary training. Students will also gain hands-on experience in how a restaurant operates while connecting with industry professionals and working towards certifications.

Students have the opportunity to take the Certified Food Protection Manager (ServSafe) exam in the third year of the program. This nationally recognized industry certification is required for every establishment that sells or serves food to the public.

After school options are available at Lake Howell and Winter Springs.

Career Opportunities

Executive Chef

(Average Salary \$51,660)

Restaurant Host/Hostess

(Average Salary \$20,640)

Restaurant General Manager

(Average Salary \$44,510)

Restaurant Server

(Average Salary \$31,210)

Sous Chef

(Average Salary \$39,080)



INDUSTRY CERTIFICATIONS



CAPE ACADEMY



CAREER PATHWAYS



AFTER SCHOOL LEARNING



Hospitality & Tourism

The hospitality industry is one of Florida's most dynamic industries and continues to grow year after year. Students who enroll in the hospitality and tourism program at Winter Springs High School will gain business, entrepreneurial and marketing skills that will be valuable regardless of their career choice.

Each year, travel and tourism employers around the world pay more than \$1.6 trillion in wages and salaries and create 12.5 million new jobs. Beginning salaries depend on the employee's skills, education and job level at a hotel, restaurant, tourism office, recreation facility, amusement park or attraction site. Salaries range from entry-level wages to six figure incomes. This industry is known for promoting from within and for its large number of young managers.

The Hospitality & Tourism Program helps students chart career paths in one of the world's largest industries, from hotel management to sports, entertainment, and event management.

In addition to working with career-focused curriculum and collaborative projects, Hospitality & Tourism students gain critical career knowledge through a series of work-based learning experiences both inside and outside of the classroom. These activities include job shadowing, role playing, mock interviews, resume writing workshops, competitions and field trips.

Career Opportunities

Concierge

(Average Salary \$30,920)

Front Desk Agent

(Average Salary \$24,710)

Maintenance Specialist

(Average Salary \$41,420)

Hotel Housekeeper

(Average Salary \$20,700)

Hotel Operations Manager

(Average Salary \$60,350)



Early Childhood Education



Do you love working with children? Do you still enjoy playing in water or getting messy using tempera paints? Students with an interest in working with children or those who see themselves becoming pediatricians or child care workers are perfect candidates for pursuing early childhood education courses.

In their first year, students are trained in the 30 hour Florida Department of Children and Families Child Care Facilities courses, which are mandated for employment in any child care facility. Students who are in the early childhood program have the opportunity to put the theory learned in level one to practice with children at preschools located on high school campuses throughout the district. Under the guidance of the master teacher, upper level students create lessons, design learning-through-play activities, manage rotations and facilitate individual and group projects.

Students in early childhood programs will learn:

- The principles of child growth and development
- How to develop fun, active, exciting lessons to teach basic skills
- How to plan a safe, healthy, supportive and respectful learning environment for young children
- Positive ways to support and promote children's social and emotional development
- How to manage effective preschool operations including records management, child growth documentation, staffing, emergencies and inclusion
- Steps to advance children's physical and intellectual development
- Strategies to establish productive, positive relationships with families

Cosmetology

The fashion and beauty industries are some of the most creative and artistic career fields to work in. From experimenting with makeup, to creating bold hairstyles with edge, cosmetology lets you be an innovator and trendsetter.

Cosmetologists thrive on creativity but need technical skills to be successful. Seminole County Public Schools Cosmetology Programs can help turn your artistic passion into a beautiful career with help from experienced instructors who believe in a hands-on approach to learning. This sequential program helps students build a broad foundation of knowledge and skills to prepare them for employment. The content includes communication, leadership, human relations, safe and efficient work practices and Florida cosmetology laws and rules. Many of the credits earned are accepted at post-secondary cosmetology schools. There are programs at Lake Brantley and Lake Howell, and both schools offer after school classes.



CAREER OPPORTUNITIES

Early Childhood

Childcare Center Director

(Average Salary \$37,850)

Curriculum Coordinator

(Average Salary \$47,080)

Education Administrator

(Average Salary \$63,590)

Preschool Teacher

(Average Salary \$26,060)

Principal

(Average Salary \$82,220)



Cosmetology

Barber

(Average Salary \$22,700)

Hairstylist

(Average Salary \$26,460)

Makeup Artist

(Average Salary \$37,160)

Manicurist

(Average Salary \$36,020)

Salon Manager

(Average Salary \$33,400)



AFTER SCHOOL
LEARNING

THROUGH EPATHWAYS, THERE IS ALWAYS SOMETHING NEW FOR STUDENTS! STAY IN TOUCH WITH US AT:



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Seminole County Public Schools Educational Equity - Notice of Nondiscrimination

The Educational Equity Administrator for Seminole County Public Schools has the responsibility of assuring compliance with the educational equity requirements by providing technical expertise, monitoring activities or programs related to compliance, and responding to equity complaints. One of the responsibilities is to administer the Educational Equity Complaint/Grievance Procedures as adopted by the School Board.

It is the policy of the School Board of Seminole County, Florida, that no employee, student, or applicant shall - on the basis of race, color, national origin, sex, disability, marital status, age, religion, or any other basis prohibited by law - be excluded from participating in, be denied the benefits of, or be subjected to discrimination and harassment under any educational programs, activities, or in any employment conditions, policies, or practices conducted by the District. Additionally, the School board of Seminole County provides equal access to public school facilities for the Boy Scouts of America and other designated youth groups as required by 34 C.F.R. 108.6.

Every employee, student, or applicant for employment at Seminole County Public Schools has a solemn right to be treated fairly, equally, equitably, and with dignity. If for any reason you - the employee, student, or applicant for employment - find that you have been victimized by acts of discrimination and or harassment, whether intentional or unintentional, you are strongly encouraged to file an Educational Equity Complaint or Grievance with the Educational Equity Administrator, or any county or school-level administrator. All such complaints must be immediately forwarded to the Educational Equity Administrator for dissemination, action, and resolution. Forward to: SCPS Educational Equity Administrator, Seminole County Public Schools, Educational Support Center, 400 E. Lake Mary Blvd., Sanford, FL 32773-7127. (407) 320-00198.

Revised 6/15