

Scientific Visualization

(PROGRAM #9400100)

The Scientific Visualization pathway provides students with the technical computer programming skills needed to display real world objects that cannot normally be seen, such as the shapes of molecules, air and fluid dynamics and weather patterns.

Students in this pathway will participate in the following Career Technical Student Organization(s) (CTSO). TSA, SkillsUSA

SCIENCE, TECHNOLOGY, ENGINEERING & MATH (STEM)

PROFESSIONAL CAREER CERTIFICATIONS*

Industry Certification Title	CAPE college credits	Graduation Online Course Requirement	Math/Sci Waiver (non-EOC)
Microsoft Office Specialist	N/A	YES	N/A
Adobe Certified Associate Dreamweaver	3 credits	YES	YES
Certified Solid Works Associate - Academic	3 credits	YES	YES

POST SECONDARY OPTIONS

Options	Pathway	Career**	Avg. Salary**
COLLEGE / UNIVERSITY ENROLLMENT	Computer Engineering BS	Scientific Software Engineer Data Scientist Programmer Bioinformatics Staff Scientist	\$78,881 \$103,742 \$120,461
REGISTERED APPRENTICESHIP	N / A	N / A	N / A
WORKFORCE	IT Industry	Technical Support IT Service	\$18.00 / hr \$16.37 / hr

COLLEGE SCHOLARSHIPS

<p>Florida Gold Seal Vocational Scholars (GSV)</p> <p>Funds 2-year programs: Technical College certificate or State College degree</p>	<p>The Florida Gold Seal Vocational Scholars (GSV) can be used to fund a career education or certificate program at a Technical or State College.</p> <p>To earn this scholarship students must:</p> <ul style="list-style-type: none"> • Complete 3 credits within a single pathway • 3.0 weighted core GPA • 3.5 unweighted GPA in the pathway courses • Minimum college ACT, SAT, or PERT scores <p>Click here to see the full eligibility requirements: www.floridastudentfinancialaid.org/SSFAD/PDF/BFHandbookChapter1.pdf</p>
<p>Florida Gold Seal CAPE Scholars (GSC)</p> <p>Funds a 2+2 bachelor's degree (BS or BAS)</p>	<p>The Florida Gold Seal CAPE Scholars award (GSC) can be used to fund a career education or certificate program.</p> <p>To earn this scholarship students must:</p> <ul style="list-style-type: none"> • Pass Industry Certification exam(s) equaling 5 or more college credits • Document a minimum of 30 service hours <p>Click here to see the full GSC eligibility requirements: www.floridastudentfinancialaid.org/SSFAD/PDF/BFHandbookChapter1.pdf Click here to see Industry Certification awarded college credits: http://www.fldoe.org/academics/career-adult-edu/career-technical-edu-agreements/industry-certification.stml</p>

SCHOOLS OFFERING THIS PATHWAY

High Schools:	Pompano Beach
Middle Schools:	Any school that offers the Digital Information Technology high school course

COURSE PROGRESSION

Course	Course #	Teacher Certification
Digital Information Technology (practical arts)	8207310	Tech ED COMP SCI
Principles of Scientific Visualization (H)	9400110	
Data Modeling (PA, H)	9400120	
Advanced Applications in Sci Viz (PA, H)	9400130	
Sci Viz Internship	9400140	

CAREER PATHWAY OPPORTUNITIES

CTE pathways offer students opportunities to continue their education after high school. Dual Enrollment pertains to students taking college courses while enrolled in high school. Articulation agreements allow students to earn college credit for CTE courses and industry certifications earned in high school.

Workplace Experience	CTE students have the opportunity to complete a pre-professional learning experience the summer after 11 th grade in their chosen field of study or career interest. www.browardschools.com/CTACE
Broward Technical Colleges	Students who have passed courses in a high school CTE program or earned an Industry Certification can apply those credits to the aligned postsecondary program. Contact a BTC Counselor for more information or follow the link to see how you can save time and money when you attend a Broward Technical College. http://www.browardtechnicalcolleges.com/articulation-agreement
Broward College	Students who complete a CTE pathway or earn an Industry Certification that aligns with Broward College's Associate of Science degree programs can earn FREE college credit. www.broward.edu/academics/cpl/pages/high-school.aspx

*Industry certifications offered may vary by school.
 **Salary data collected from Indeed.com, 04/2017

CONTACT INFORMATION

Broward County Public Schools: Career, Technical, Adult and Community Education
 754-321-8400 www.BrowardSchools.com CTACE@BrowardSchools.com

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