







Developing Educational Pathways:

An Ecosystem Model for Connecting Passion to Profession May 7-8, 2019
Rosen Centre Orlando
FLORIDA



































Officially launched May 2016

credentials by 2025.

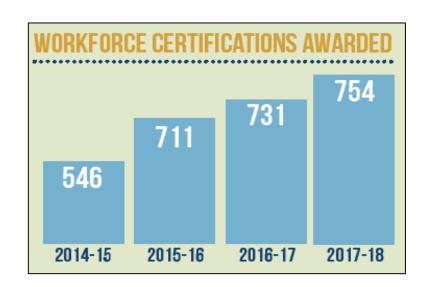


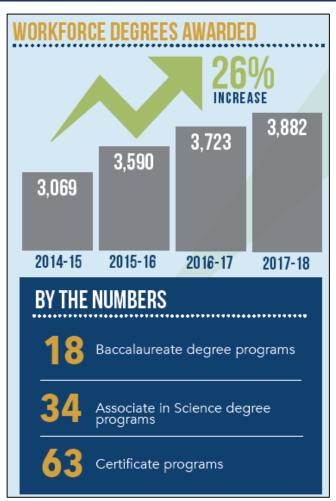






SPC FACTS







STUDENT PROFILE

47,000 Students

740/n Attend part time

720/ Work while attending school

470/₀ Age 25 and older

370/0 Minorities

35% Have children







THE UNDERLYING PROBLEM

Under-education and Under-employment

- 64,000 annual job openings in Pinellas (SPC trains for most)
- 45% of Floridians are income constrained
- Studies show 90% of students do not have the clarity nor confidence to make adequate educational decisions

WORKFORCE PROFILE

Master's or high degree

60% of the jobs in Florida will require a degree or credential by 2025

2.1 MILL adults in Floridia have some college, but no degree – 109,000 in Pinellas

Those with a degree earn more than double those with only a high school diploma



of Pinellas County high school graduates say they want to go on to college or get a certification after high school (down from 70% five years ago)

430,000 working-aged men in Florida have stopped looking for work and don't count against the unemployment rate

Data Source: Pinellas County Community Indicator Report, 2018 and the Tampa Bay Times





\$113.997



WHY IMPLEMENT PATHWAYS

Too many students wander because they are:

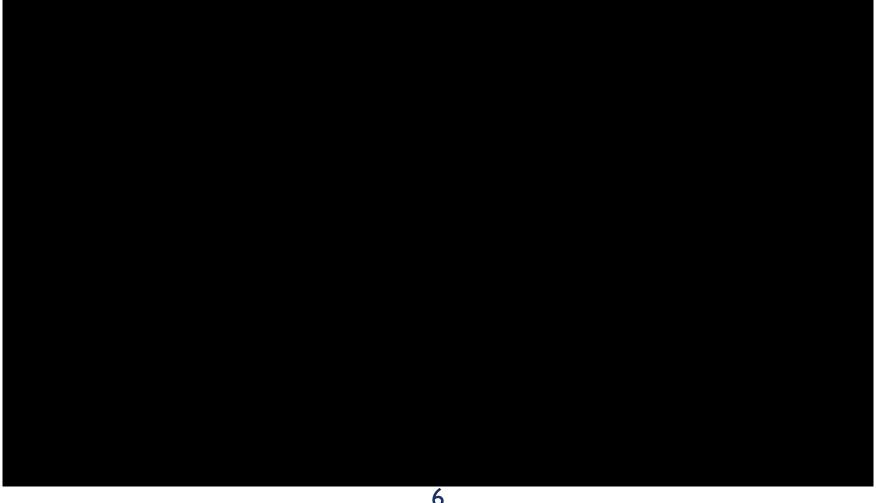
- Undecided in regard to career goals
- Unaware of the elements of a chosen career
- Disconnected regarding the initial curriculum and their career choice







GUIDED PATHWAYS AT SPC









WHAT DOYOUTHINK?

WHAT'S THE FIRST THING THAT COMES TO YOUR MIND WHEN YOU THINK ABOUT GUIDED PATHWAYS?

Text COLABS to 22333 once to join, then text your one word response.

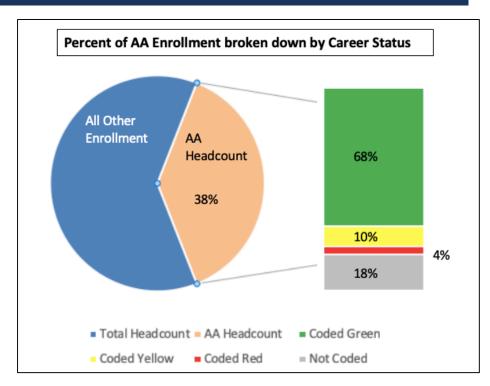






SPC CONTRIBUTING FACTORS

- Avg. # of credits completed for AA degree = 81 hrs
- Avg. # of credits completed for AS degree = 93 hrs
- University Excess Hours Fees 100% Increase over 110% credit hours
- New Financial Aid language
- 2,500 Students Enrolled in Fall 2015 and did not return Spring 2016 (Good Academic Standing)









EVOLUTION OF PATHWAYS AT SPC







"Before" "After"

Since 2010 SPC has focused its strategic efforts on **student success** using an intentional data-driven way to help students "Finish What They Start".



10 YEAR TIMELINE - PATHWAYS AT SPC

2010

Mandate to "Move the Needle"

2011

 Started The College Experience Support Initiatives

2012

 Established Curriculum Philosophy and Values

2013

2014

- Developed Program Outcomes
- Mapped PLOs to Course Outcomes

THE SBURG COLLEGE

- Developed Academic Pathways
- 9 weeks to complete the process
- 6 months to review and implement

2015

Embedded Industry Certifications

2016

- Career & Academic Communities
- Milestones & Common Ist 15

2017

Revised Periodic Course Review

2018

 Revised Career & Academic Community Milestones

2019

- Under Embedding Strategic Plan
- Defining Academic Excellence





PATHWAYS DEFINED

"The Pathways Model is an integrated, institution-wide approach to student success based on intentionally designed, clear, coherent and structured educational experiences."



SPC's goal is to "help students finish what they start."





PATHWAYS DIMENSIONS

There are 4 Dimensions of the Pathways Model:

- I. Clarify paths to student end goals
- 2. Help students choose and enter a pathway
- 3. Keep students on path
- 4. Ensure that students are learning









DIMENSION I: CLARIFYING THE PATH

- Mapping programs "with the end in mind"
- Aligning course content and student learning outcomes
- Identifying milestone courses
- Identifying the <u>right</u> math
- Review pathway curriculum for coherence
- Select recommended elective courses







DIMENSION I:THE "WHY"

PATHWAYS FEATURES INCLUDE:

- Flexibility in scheduling courses for students who are enrolled in a part-time or full-time basis
- Determine the current "health" of your curriculum by documenting a baseline
 snapshot of how students move through a program
- Streamlined course options
- Identification of hidden pre-requisites
- Identification of courses that may overlap requirements
- Identification of new certificates and stacked credentials





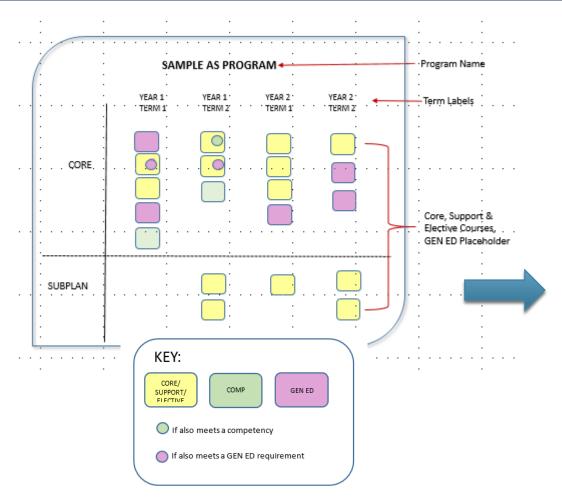




DIMENSION I:THE "WHAT"

Academic Pathways are SPC's solution to taking the guesswork out of planning a college career.

Simply put, Academic Pathways are chronological listings of all **specific** courses in a degree-program in the **recommended order** in which a student should complete them.



AS Program Courses

- . ENC 1101
- 2. course 2
- 3. Course 3
- 4. Course 4
- 5. Course 5
- 6. Course 6
- 7. Course 7
- 8. Course 8
- 9. Course 9
- 0. Course 10
- I. Course II
- 12. Course 12
- 13. Course 13
- 14. Course 14
- 15. Course 15
- 16. Course 16
- Course 17
- 8. Course 18
- 9. Course 19
- 20. Course 20





PATHWAY EXAMPLE

ACADEMIC PATHWAY

Computer Networking Associate in Science Degree

Current	BUS-AS
<u>Pathway</u>	

Seq#	Course	Course Title	Credit	Туре	Term	Pre-	Option
1	CGS 1070	Basic Computer and Information Literacy	1	Gen Ed	F, Sp, Su		Y
2	PHI 1600	Studies in Applied Ethics	3	Gen Ed	F, Sp, Su		Y
3	COP 1000	Introduction to Computer Programming	3	Core ¹²	F, Sp, Su		
4	MAT 1033	Intermediate Algebra	3	PreReq	F. Sp. Su		
5	CET 1171C	Computer Repair Essentials	3	Core NA	F, Sp, Su		
6	MAC 1105	College Algebra	3	Gen Ed	F, Sp, Su	Y	
7	CNT 1000	Local Area Network Concepts	3	Subplan 133	F, Sp, Su	Y	
8	CET 1172C	Computer Support Technician	3	Core M	F, Sp, Su		
	PREPARATION	FOR COMPTIA A+ INDUSTRY CERTIFICATION COMPLETED					
9	ENC 1101	Composition I	3	Gen Ed	F, Sp, Su		Y
10	SPC 1065	Business and Professional Speaking	.3	Gen Ed	F, Sp, Su		Y
11	CTS 1327	Configuring and Administering MS Windows Client	3	Subplan 133	F, Sp, Su		
12	CTS 1328	Installing and Configuring Windows Server	3	Subplan 14	F, Sp, Su	Y	
13	CTS 2106	Fundamentals of the Linux/Unix Operating Environment	3	Subplan 133	F, Sp, Su	Y	
	COMPUTER SU	PPORT CERTIFICATE COMPLETED					
14	POS 2041	American National Government	3	Gen Ed	F, Sp, Su		Y
15	CTS 2321	Linux System Administration I	3	Subplani	F, Sp	Y	
16	CTS 2322	Linux System Administration II	.3	Subplan ²	F, Sp	Y	
	LINUX SYSTEM	ADMINISTRATOR CERTIFICATE COMPLETED					
17	HUM 2270	Humanities (East-West Synthesis)	3	Gen Ed	F, Sp, Su		Y
18	CTS 1334	Administering Windows Servers	3	Subplan *	F, Sp	Y	
19	CTS 1303	Configuring Advanced Windows Server Services	3	Subplan *	F, Sp	Y	
	MICROSOFT CE	RTIFIED IT PROFESSIONAL: SERVER ADMINISTRATOR CERTIFICATE CO	OMPLETED				
20	CIS 2321	Systems Analysis and Design	3	Core	F, Sp, Su	Y	
21	CTS 1411	Fundamentals of Information Storage and Management	3	Core	F, Sp	Y	
22	CTS 2370	Configuring and Managing Virtualization	3	Core	F, Sp	Y	
23	CNT 2940	Computer Networking Internship	3	Core	F, Sp, Su		

(Includes MAT 1033 & Computer Competency)

Term Offered: F - Fall | SP - Spring | SU - Summer | Type of Course: Core - Required for the Program | Elective - Options based upon personal interest | Gen Ed - General Education | PreReq - Prerequisite | Subplan - Specific to a particular degree option





¹ Part of Computer Support Certificate

⁷ Part of Linux System Administrator Certificate ⁸ Part of Microsoft Certified IT Professional: Server Administrator Certificate

^{*}Preparation Course for CompTia A+ Industry Certification



DIMENSION 2: HELP STUDENTS CHOOSE A PATH



- Embed intrusive advising in pathways
- Align advising with critical student choices and milestones
- Strengthen and clarify student-facing information about jobs/careers/transfer options



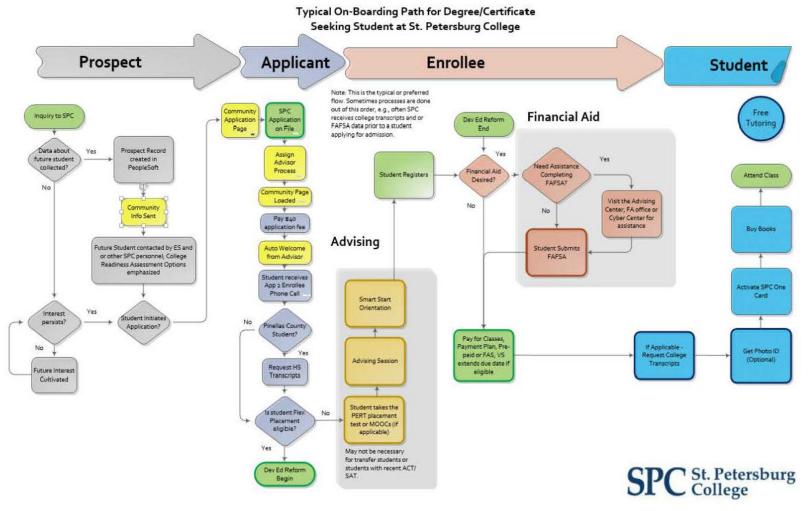


DIMENSION 2: UNDERLYING VALUES

- Students, who can connect with their passion, will work harder and work through obstacles.
- Students often come to college for a career, not for a piece of paper.
- It is just as important to know what students don't want to do as it is to know what they want to do.
- Students are more likely to respond to college messaging from faculty and staff to that they know and feel better connected.



DIMENSION 2: STUDENT ONBOARDING



- I. Map your processes with collaboration across departments
- 2. Review all communications with students website, emails, letter, and texts
- 3. Gather information about your processes
 - Talk with front line staff
 - 2. Talk with Faculty
 - 3. Talk with students Focus groups
 - 4. Mystery shoppers
 - 5. Complete your own processes
- 4. Walk through your process from the perspective of a student. How are students impacted by the processes?



PUBLIC FOCUS 2 / DEGREE WEBSITES

Public Facing Focus 2



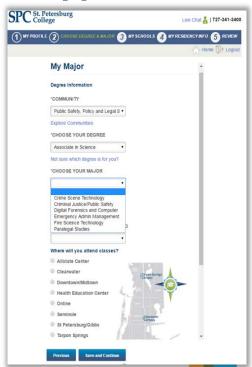




Degree Website Information



Application







STUDENT ENGAGEMENT & CAREER CONNECTIONS

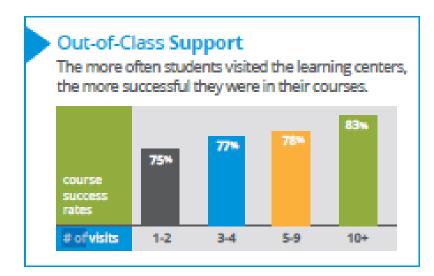
Students who are career-focused and engaged at the college are more successful.

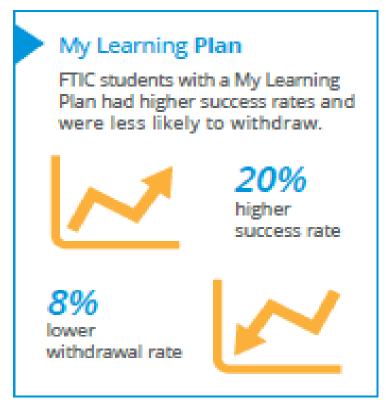
Integrated Career and Academic Advising

FTIC students who have identified a career are 10% more successful* in their classes than students who have not



*Success is defined as earning a grade of A, B or C in a class





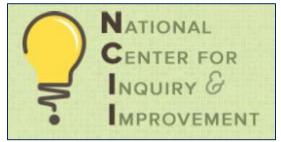






STUDENT ENGAGEMENT & CAREER CONNECTIONS

"Difference for successful groups of students? Someone monitors their progress, not letting them fall through the cracks."



Rob Johnstone

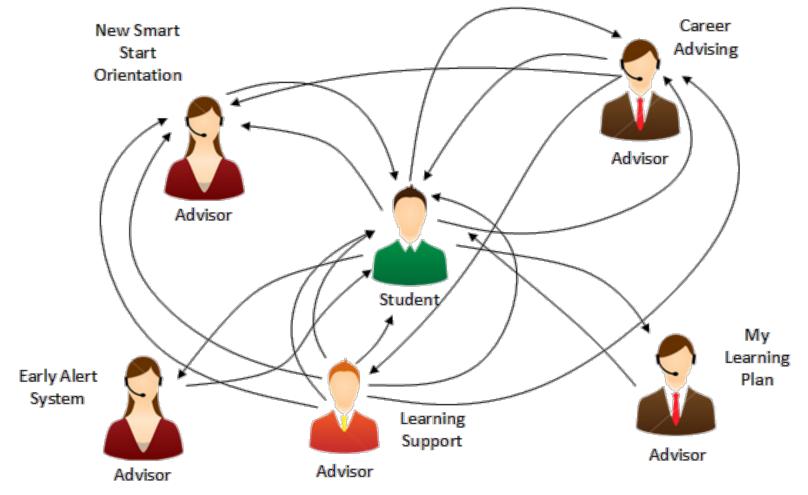
Virginia Student Success Leadership Institute 2016







DEVELOPMENT OF THE ADVISOR ROLE

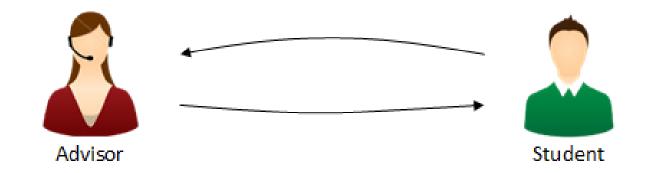








CASE MANAGING THROUGH COMMUNITIES



A holistic approach where Career and Academic Advisors, Faculty, and Learning Resources help students navigate through college life by promoting positive behaviors and connecting them to internal and external resources that support academic success.

FTIC Students

Students are assigned an advisor at the time of application.

Current Students

Students are assigned an advisor based on home campus and current program.







DEVELOPMENT OF THE ADVISOR ROLE

NEW Past Advisor Role **Enhanced** Advisor Role Empowered Decision making Centralized Leadership Career Development and Transfer/Job Placement Services Course Selection Assistance Retention & Case Management (outreach, early alerts, & intervention) Classroom Visits College resources instruction (Smart Start, MLP, etc.)

Career Development Facilitator (CDF)

- CDF training introduces an ecosystem that fosters a learning community among staff, faculty, and employers, cultivating internship and employment opportunities alike
- Advisors are now equipped with the knowledge and confidence to identify students' career needs and ask students the right questions to assist them with career guidance
- Integrate career exploration into advising sessions





COMMUNICATING WITH STUDENTS

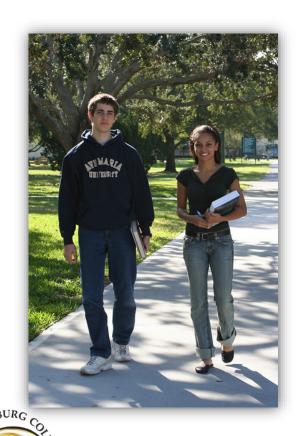
- Students are besieged with communications through social media
- Students are resistant to communications that are:
 - General and "One size fits all"
 - Not speaking to them about their specific situation
 - From someone they do not know
- College communications Need to be "Timely, Relevant, and Personal"







DIMENSION 3: KEEP STUDENTS ON A PATH

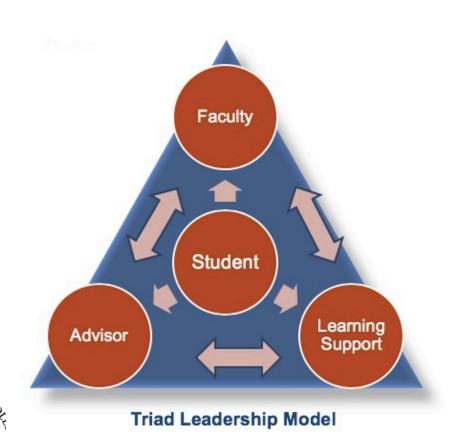


- Define appropriate communication milestones encouragement and intervention
- Embed meaningful career and/or transfer skills
- Set policies for completing college level
 Math and English requirements

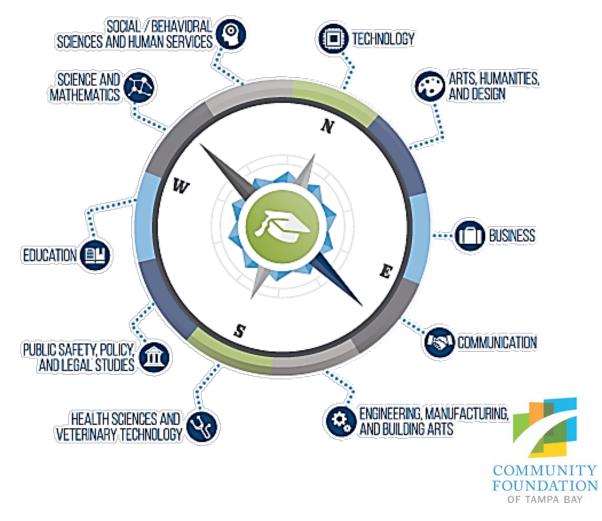




DIMENSION 3: CAREER & ACADEMIC COMMUNITIES

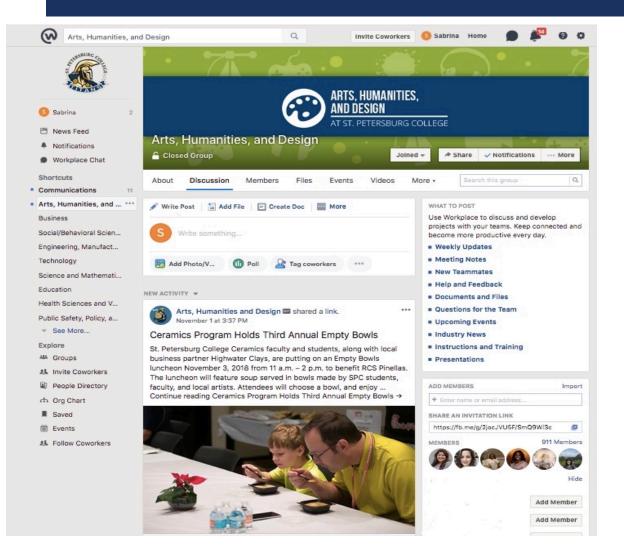


TERSBURG





CONNECTING COMMUNITIES











Mary Hanlon - Plays oil Therapy









CONTEXTUALIZATION – WEEKLY EVENTS

Industry Engagement







Internship Expo 2018





ORIGINAL MILESTONES

Enrollment 0-25%

Focus 2

Community/Major Changes

My Learning Plan

Smart Start Orientation

Academic Standing

Success Rates

Learning Support visits

Registered for next term

Program Eligibility

Retention 26-75%

Transfer institution

Optimal Resume

Burning Glass

Registered for next term

Civic Engagement

Career Services Hub

Industry Site Visit

LinkedIn/Portfolio

Completion 76-100%

Internship

Portfolio

Resume

Attend Job Fair/ Job search

Apply to transfer

Graduation check







CREATING PATHWAYS ADVISING REPORTS

TAKING IT TO THE NEXT LEVEL

Current Structure

Course requirements are displayed in groupings:

- General Education
- Major Core Courses
- Subplan Courses

New Pathway Structure

Course requirements are listed in sequence order, mirroring the academic pathway Excel sheets:

- Course 1
- Course 2
- Course 3, etc.







MY LEARNING PLAN

- Course list displayed is based on the program/plan.
- Courses that have been used to satisfy a requirement are listed first with a green check mark.
- The recommended course will display for requirements that have not yet been satisfied, in the order they are recommended to be taken.
- Courses planned that are not in major are flagged.



Legend:	\otimes	Taken 🔷 In Progress	🖈 Plai	nned	•	Planned not in Major			
Subject	Catalog Nbr	Course Description	Units Taken	Term		Term Description	Prere	Other Options	Status
CGS	1100	Computer Applications	3.00	0465	Sprin (465)	g Term 2012-2013)	No	No	$\boldsymbol{\varnothing}$
HFT	1000	Intro to Hospitality/Tourism	n				No	No	Not Met
GEB	1011	Introduction to Business					No	No	Not Met
MAN	2340	Supervisory Management					No	No	Not Met
MNA	1751	Customer ServiceI Dvlping Sprt					No	No	Not Met
HFT	1300	Housekeeping Operations					No	No	Not Met
HFT	1941	Operations & Service Practicum					No	No	Not Met
FSS	2235C	Intro Food Production Managemt					No	No	Not Met
MAR	2011	Principles of Marketing					No	No	Not Met
HFT	2750	The Event Industry					Yes	No	Not Met
SPC	1065	Business/Professional Speaking					Yes	No	Not Met
HFT	2450	Hospitality Cost Controls					Yes	No	Not Met
HFT	2600	Hospitality Law					No	No	Not Met
HFT	2265	Food Service Operations					Yes	No	Not Met



SET POLICIES ON ENGLISH & MATH

FTEIC Gateway Math and English Completion

	Fall							
	2010	2011	2012	2013	2014	2015	2016	2017
Completed College Math in year I								
	33.9%	36.8%	35.1%	38.6%	41.3%	45.2%	42.8%	45.0%
Completed College English in year 1								
	55.6%	56.7%	58.0%	60.7%	61.3%	65.8%	60.2%	61.6%
Completed both College Math and								
English in year I	29.4%	32.3%	31.0%	34.5%	37.3%	40.6%	37.8%	40.0%







DIMÉNSION 4: ENSURE STUDENTS ARE LEARNING



- Map program learning outcomes to career and academic pathway courses.
- Strengthen assessment by identifying where learning outcomes are introduced, practiced, reinforced and finally mastered with supporting documentation
- Faculty review how program learning outcomes should change along the pathway to align their course and assessment protocols.
- Promote discipline-appropriate strategies for active & collaborative learning (e.g., service learning, group projects).
- Align discipline-appropriate co-curricular learning.





PERIODIC COURSE REVIEW

The Essential Review Buckets

MLOs & Objectives	Learning Activities	Resources	Assessment Strategies	Program Learning Outcomes
 How can MLOs/COs be measured? Do COs align with MLOs and course description? Do course assessments align with MLOs/COs (rubrics/checklist/criteria/tests)? SME review Industry expert involvement 	 Are assignments clearly identified? Is there evidence of active learning? Are instructions clear? Is learning scaffolded/sequenced? Are learning activities flexible? Do activities support MLOs/COs? 	 Are resources clearly identified Are resources relevant? Are out-of-classroom resources identified (i.e. tutoring, IT, clubs, library)? Are accessible resources user friendly, inexpensive, diverse? 	 Are assessment strategies clearly identified? Do assessments have appropriate rigor (Introduce, reinforce, evaluate; Bloom's)? Are assessments authentic, varied & aligned to MLOs? Are strategies in line with industry expectations (where appropriate)? 	 How does this course fit into the bigger picture? Does the course align to PLOs? Does the course add value within the structure of the program?



AUTO-GRAD



Reversed the model – Graduation traditionally student initiated, effective Spring 2016, completely college-initiated

Degree candidates identified at beginning of term, notified of eligibility for both primary degree sought and any embedded credentials

Graduation application and fee eliminated

Automatically awarded degree or credentials at end of term



ENGAGE COLLEGE STAKEHOLDERS





TANS TO THE PARTY OF THE PARTY





- Employers
- Board of Trustees
- K-12
- University Partnerships

Key Outcome: Better collaboration between Academic and Student Affairs!















Pinellas County Schools or Pinellas Technical College to St. Petersburg College Computer Programming and Analysis AS



Collins						
PCS and PTC Programs						
Pinellas County High School students may receive free colleg	ge credit if they achieve a B or					
higher in						
Pinellas County Schools Web Development Program ¹	Credits					
Foundations of Web Design (9001110)	1 Credit					
User Interface Design (9001120)	1 Credit					
AND one of the following						
Computering for College and Careers (8209020)	1 Credit					
OR						
Intro to Information Technology (8207310)	1 Credit					
Total	3 Credits					
¹ Applies towards these credit hours for the AS degree (Shown in light blue)						
CGS 1831 Web Foundations/Essentials	3 Credits					
Students can also receive free college credit if they achieve a B or higher in						
Pinellas County Schools Programs: Web Application Development and Programming,						

Pinellas County Schools Programs: Web Application Development and Programming, .NET Application Development and Programming, OR Java Development and Programming ²	CREDITS
Intro to Information Technology (8207310)	1 Credit
Foundations of Programming (9007220)	1 Credit
Procedural Programming (9007220)	1 Credit
Total	3 Credits

² Applies towards these credit hours for the AS degree (Shown in dark blue)
COP 1000 Introduction to Computer Programming 3 Credits

Students can also receive free college credit if they successfully complete...

Pinellas Technical College Program ³	Clock Hours
Web Development (Y700100)	1050

Applies towards these credit hours for the AS degree (Shown in gold)
 CGS 1831 Web Foundations/Essentials
 3 Credits

Students in the Dual Enrollment program may also receive credit for...

Dual Enrollment⁴

⁴ Courses for Dual Enrollment are always offered on an SPC campus, but offerings at each high school may vary (Courses shown in green)

			SPC Computer Programming and Analysis AS ⁴		
ı	#	Course	Course Title	Credits	
	1	CGS 1309	Computer and Information Technology Concepts	3	
	2	ENC 1101	Composition I	3	⁴ Students who complete the
	3	SPC 1065	Business and Professional Speaking	3	AS degree will also be eligible
ı	4	MAT 1033	Intermediate Algebra	3	to receive the embedded
	5	COP 1000	Introduction to Computer Programming	3	Computer Programming
	6	MAC 1105	College Algebra	3	Specialist and the Computer
	7	CGS 1560	Computer Operating Systems	3	Programmer certificates.
	8	CGS 1831	Web Foundations/Essentials	3	
	9	CGS 2402	Programming in C++ for Business	3	
	10	COP 2222	Advanced C++ Programming for Business	3	
	11	PHI 1600	Studies in Applied Ethics	3	
	12	COP 2250	Java Programming I	3	
Ы	13	COP 2360	C# Programming I	3	
	14	CTS 2433	SQL Database Design & Programming	3	
	15	COP 2251	Java Programming II	3	
ı	16	COP 2362	C# Programming II	3	
ı	17	HUM 2270	Humanities (East-West Synthesis)	3	
	18	COP 2839*,**	ASP.NET Programming with C#/VB.NET	3	
	19	COP 2660*	Introduction to Android Programming	3	
	20	POS 2041	American National Government	3	
	21	COP 2940	Computer Programming Internship	3	

Total Program Credits

Total Pathway Credits

(Including MAT 1033 & Computer Competency)

60



FUTURE OPPORTUNITIES – UNIVERSITY

Start - St. Petersburg College

The following course sequence is a suggested semester by semester plan for completion of requirements of the A.A. and pre-requisite courses. A unique plan developed in consultation with an advisor at both SPC and USFSP may differ depending on student circumstances. See your advisor for options in general education or elective requirements.

YEAR 1 - SPC

FALL		SPRING	
ENC 1101 GE Communication REQUIRED	3	ENC 1102 GE Communication	3
**MAC 1105 GE Mathematics		BUL 2241 Elective	3
Prerequisite to MAC 2233	3	ECO 2023 REQUIRED	3
ECO 2013 GE Social Science REQUIRED	3	GEB 1011 Elective	3
EVR 1328 GE Natural Science	3	BSC 1005C GE Natural Science	3
HUM 2270 GE Humanities	3	TOTA	\L: 15
TOTA	L: 15		

^{**}Students have three options to substantiate placement into MAC 1105. 1) Accuplacer scores 2) Successful completion of appropriate prerequisite course 3) Dean's review of transfer credit, ACT/SAT scores, or PERT scores

YEAR 2 - SPC

FALL		SPRING		
ACG 2021 REQUIRED	3	ACG 2071 REQUIRED	3	
MAC 2233 REQUIRED	3	PHI 1600 SPC Ethics Requirement REQUIRED	3	
HUM 1020 GE Humanities	3	SPC 1608 SPC Speech Requirement		
POS 2041 GE Social Science REQUIRED	3	REQUIRED (or SPC 1017)	3	
CGS 1100 SPC Computer Requirement REQUIRED	3	STA 2023 GE Mathematics REQUIRED	3	
TOTAL:	15	MAN 2021 Elective	3	
Craduata with A.A. from CDC		TOTAL	15	

The FUSE Supplemental Form should be submitted to USFSP by early spring of year 2 (or spring of year leading into intended transfer) to ensure timely review.

USFSP Courses

Traditional Delivery

(In Class, On-Line, and/or Hybrid)

YEAR 3 FALL USFSP

ACG 3103 Intermediate Financial Accounting	•
ACG 3341 Cost Accounting & Control I	3
ISM 3011 Information Systems in Organizat	tions 3
MAR 3023 Basic Marketing	3
	TOTAL: 12

YEAR 3 SPRING USFSP

ACG 3113 Intermediate Financial Accounting	ng II 3
ACG 3401 Accounting Information Systems	3
QMB 3200 Business & Economics Statistics	s II 3
BUL 3320 Law & Business I	3
	TOTAL: 12

VEAD 2 CHRARAED HOLD

YEAR 3 SUIVINIER USFSP	
FIN 3403 Principles of Finance	3
XXX XXXX Non-Business Exit Major Works/	
Major Issues Course	3
	ΤΠΤΔΙ · (

YEAR 4 FALL USESP

international ropics course	TOTAL: 15
International Topics Course	3
XXX XXXX Non-Business Contemporary	
ENC 3250 Professional Writing	3
MAN 3025 Principles of Management	3
TAX 4001 Federal Taxes	3
ACG 4632 Auditing I	3

YEAR 4 SPRING USFSP

GEB 4890 Strategic Management	
& Decision Making	
XXX XXXX Accounting Major Elective	
XXX XXXX Accounting Major Elective	
XXX XXXX Exit Literature & Writing	
XXX XXXX Elective to 120 Hours	
	TOTAL













IT TAKES A VILLAGE

- Educational Ecosystem: Continue to facilitate partnerships with Pinellas County School Principals and SACs to ensure the alignment with career and academic communities.
- Workforce Ecosystem: Establish new partnerships with industry sectors to allow for connections to local industry needs as well as job engagements for students (e.g., job exploration, job shadowing, internships, and apprenticeships).
- **Higher Ed Ecosystem:** Continue to expand the number of FUSE programs with the University of South Florida, establishing defined 2+2 paths from high school to career.





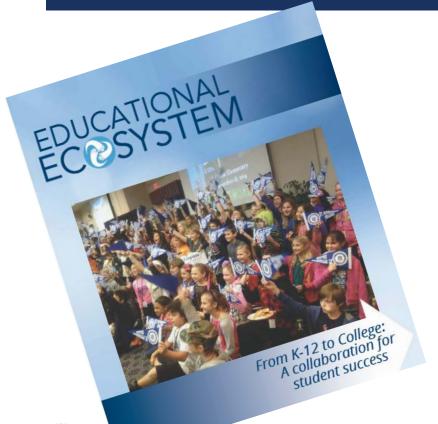








LOCAL COLLEGE EDUCATIONAL ECOSYSTEM



"A system of schools and community partnerships that share a single strategic focus on the success of Industry its students."



In the City of Seminole, 3,500 5th graders have visited the Seminole SPC Campus since 2013-14



WHAT DOYOUTHINK?

AFTER HEARING THE PRESENTATION, WHAT

CHALLENGES, BARRIER OR CONCERNS DO YOU HAVE

ABOUT LEVERAGING EDUCATIONAL PATHWAYS TO

SUPPORT ECONOMIC MOBILITY OF OUR COMMUNITIES?

Text COLABS to 22333 once to join, then text your one word response.







QUESTIONS





