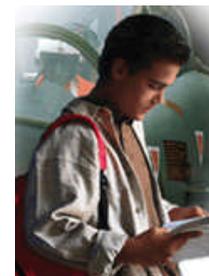


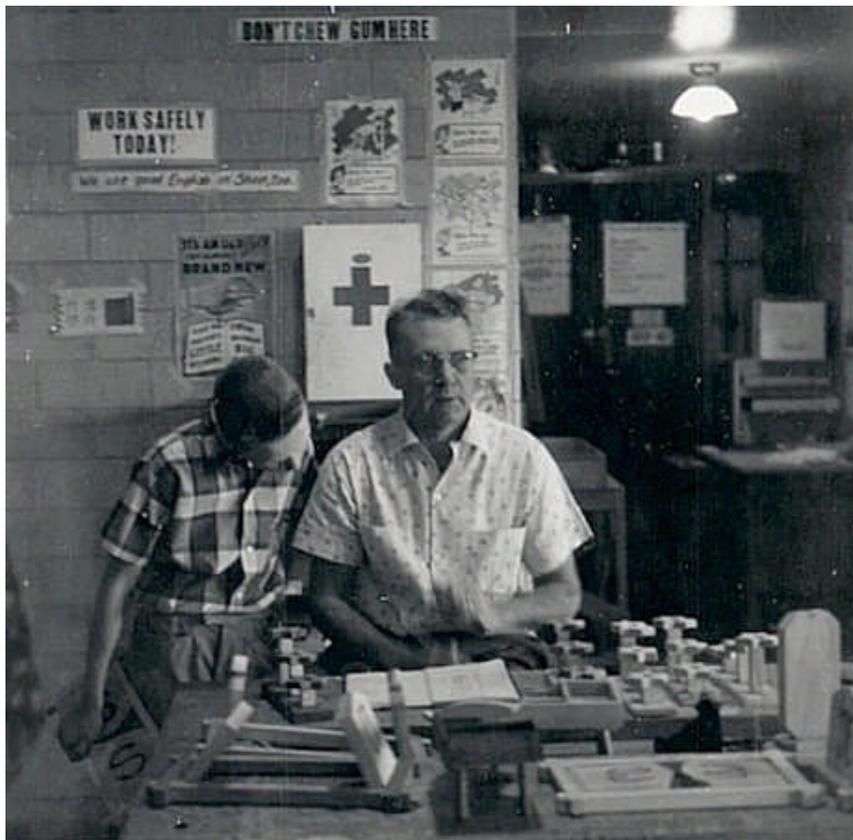
Economic Future of America Rests on the Shoulders of Career Academies!

Constance Scotchel-Gross
Career and Technical Education and
Community Education
School District of Martin County

November 4, 2011



Career and Technical Education

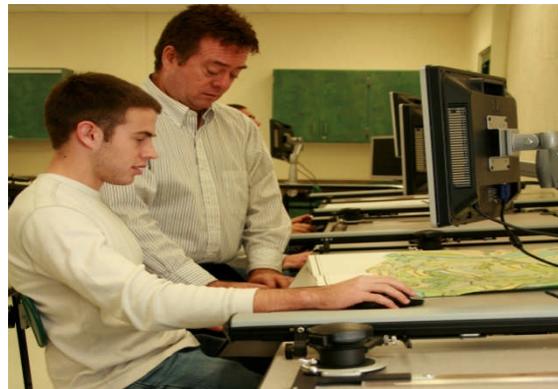
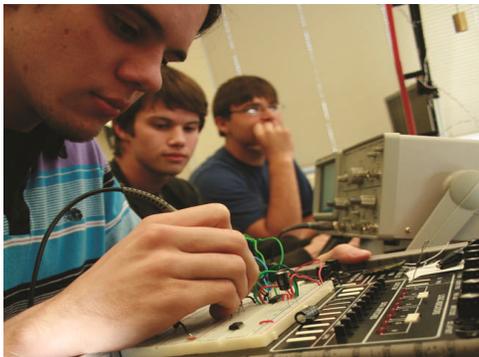


**It's not your parent's
wood shop or home
economics class!**

New Direction for Career and Technical Education (CTE)

<p style="text-align: center;">“Then”</p> <p style="text-align: center;">Vocational Education</p>	<p style="text-align: center;">“Now”</p> <p style="text-align: center;">CTE</p>
For a Few Students (non college bound)	For all Students
For a Few “Jobs” (those requiring less than an associate’s degree)	For all “Careers” (requiring technical degrees, baccalaureate degrees, professional degrees)
6 to 7 “Program Areas”	17 Clusters- 81 Pathways
In Lieu of Academics	Aligns/Supports Academics (integral partner in high school reform efforts)
High School Focused	High School and transition to postsecondary (certificate, 2 year, 4 year plus)

Career and Technical Education Today...



Career and Technical Education

- A strategy to prepare high school students for success in college and careers
- Focus is on integrating rigorous academics with a career theme

“Learning is Relevant”

“Student is Engaged”

- Career and Professional Education Academies are a major strategy for improving college and career readiness

Today's Student...

Needs to be “College and Career Ready”

- To be successful, a student needs at least two pieces of paper..a “high school diploma,” based on a core academic curriculum that keeps postsecondary options open and “something else.”
- The “something else” needs to be a meaningful industry credential earned through multiple high school and post-secondary career pathways.

Today's Student...

Needs to be a “Versatelist”:

Someone who can apply a depth of skill to a progressively widening scope of situations and experiences, gaining new competencies, building relationships, and assuming new roles.

Source: Gartner, Inc



So, What's The Answer?

A Career Academy!

...Research-based instructional delivery & reform model

...Positive academic & labor market results for over 40 years

...Strong Return On Investment (ROI) yielding:

- * Increased student achievement
- * A value added high school diploma
- * Increased success in postsecondary endeavors
- * Increased wages
- * Increased tax revenues
- * Reductions in government spending on public assistance

Florida

Career and Professional Academies and Industry Certification *2009-10 Data*

- Section 1003.493, Florida Statutes, Career and Professional Academies are research-based programs that integrate a rigorous academic curriculum with an industry-specific curriculum aligned directly to priority workforce needs established by regional workforce boards.
 - Registered academies: 838
 - District with a least one academy: 67
 - Students enrolled in Career and Professional Academies: 102, 430
 - Students who earned at least one industry certification: 8,629



Career Academy Features

* Small Learning Community (a group of students within a larger high school, who take classes together for a least 2 years & are taught by a team of teachers from different disciplines)

* College Preparatory Curriculum with A Career Theme

* Partnerships with employers, higher education and the community

* Use of the National Standards of Practice (NSOP) for career academies



Research Shows it WORKS!

- Students at schools with ... rigorous CTE programs have higher achievement in reading, math and science.

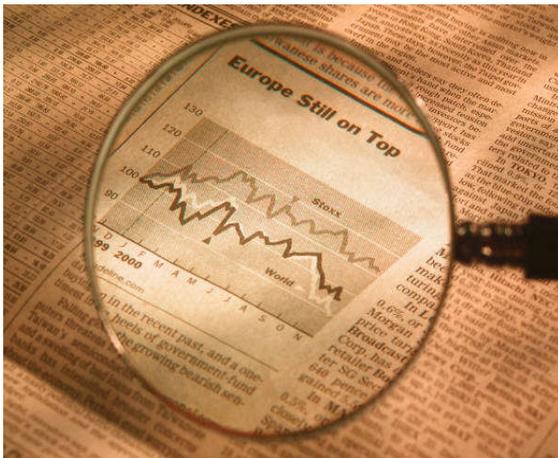
(Southern Regional Educational Board)

- CTE concentrators take more and higher level math than their general track counterparts.

(2002 National Center for Research in Career and Technical Education)

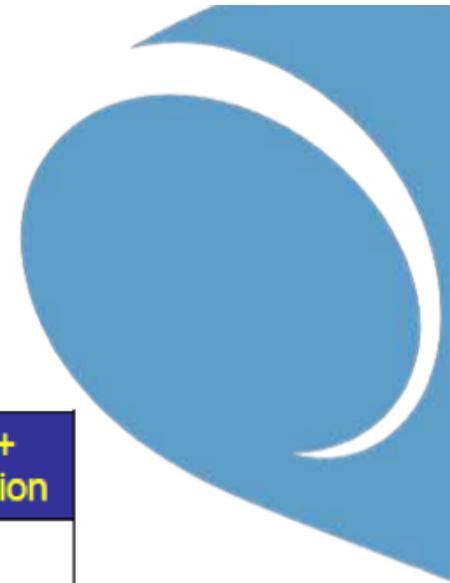
Show Me The Data!

- *Academies provide a link among electives, strong academics and post-secondary education.
- *Relevance to concrete ideas and project-and community-based learning can further enhance the linkages between education and students' future career and life goals, and as a result, increase overall student achievement.



- *National Academy Foundation (NAF), which supports 520 academies in 49 states, reports that 90% of students enrolled in its programs graduate and 80% go on to college.

Performance of Career and Professional Academy and Industry Certification Students 2009-10 Data



Performance Indicator	Non-CAPE	CAPE, No Certification	CAPE + Certification
Average GPA	2.56	2.60	3.00
Chronically Absent	16.7%	19.7%	11.4%
At Least One Disciplinary Action	21.3%	20.8%	11.0%
Dropout Rate	2.2%	1.2%	0.2%
12th Graders Earning Standard Diploma	78.6%	88.3%	97.4%
At Least One Accelerated Course	22.2%	22.0%	32.9%
Bright Futures Eligible Seniors	27.9%	25.9%	43.7%

Source: FLDOE Data

Martin County Career Academy Highlights

	2007-2008	2008-2009	2009-2010	2010-2011
Academies Registered	5	7	25	24
Students Enrolled	41	644	1,378	2386
% of High School Population	0.72%	11%	24%	43%
# of Industry Certifications earned by students	72	180	647	754

Martin County Career Academy Highlights

	Non-CAPE	CAPE – No Certification	CAPE + Certification
Students	3207	1785	601
Average GPA	2.88	3.00	3.23
Chronically Absent	8.3	6.9	4.0
At Least One Disciplinary Action	15.6	15.0	9.3
Drop Out Rate	0.7%	0.1%	0.2%
At Least One Accelerated Course	35.7%	32.2%	36.4%

So, What Does It All Mean?

The schools of the 21st century should provide students with the same types of experiences and employ the same types of practices that they will encounter after graduation and in the workplace.

These skills include:

-rigorous academics

-technical know-how

-employability skills

*problem solving

*critical thinking

*team work

*communication

*entrepreneurship

*flexibility

*adaptability



Source: ACTE Issue Brief-The Role of Career Academies in Education Improvement

Martin County Career Academies

Career Academy	Industry Certification
Animal Sciences and Services	(Currently transitioning this program into Veterinary Assisting Academy)
Architectural Building Construction	NCCER Carpentry Level 1, Autodesk Certified Associate – AUTOCAD, ADDA
Architectural Drafting	Autodesk Certified Associate - AUTOCAD, AUTOCAD Architecture, ADDA
Auto Collision and Repair	ASE Non-structural Analysis/Damage, Repair, Painting and Refinishing
Auto Services Technology	ASE Brakes, Suspension & Steering, Small Engines, Electrical
Carpentry	NCCER Carpentry Level 1
Commercial Photography	Adobe Associate (Photoshop)
Culinary Arts	National ProStart Certificate of Achievement, Certified Professional Food Manager (ServSafe)
Digital Design	Adobe Associate (Dreamweaver, Flash, Photoshop)
Draft/Illust. Design	Autodesk Certified Associate – Auto CAD

Martin County Career Academies

Engineering (PLTW)	Autodesk Certified Associate - Inventor
Entrepreneurship	National Professional Certification in Customer Relations (Customer Service)
Finance	National Professional Certification in Customer Relations (Customer Service)
Health Sciences:	
Allied Health Assisting	Certified EKG Technician CET
First Responder	First Responder
Nursing Assisting	Certified Nursing Assistant CNA
Landscape Operations	FNGLA Certified Horticulture Professional (FCHP)
Marketing Management	National Professional Certification in Customer Relations (Customer Service)
Network Support Services	MCAS Bundle Certification, MOM, COMPTIA A+, MCDST, Network+
Structural Drafting	Autodesk Certified Associate – AUTOCAD and Associate Civil 3D
Television Production	Apple Certified Pro (ACP) Final Cut Pro 7, Apple Certified Pro (ACP) – DVD Studio Pro
Veterinary Assisting	Certified Veterinary Assistant (CVA)
Web Design	Adobe Associate (Dreamweaver, Flash, Photoshop) (Currently transitioning this program into Digital Design)

Economic Future of America Rests on the Shoulders of Career Academies!!



CAREER ACADEMY SHOWCASE

October 24, 2011

Martin County High School

Presented by:

Martin County School District

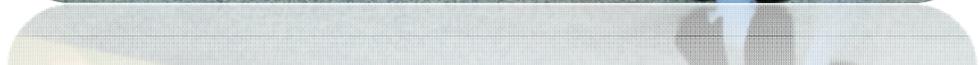
Economic Council of Martin County

Education Foundation of Martin County











Welcome to Martin County Schools'

Showcase

of Career & Technical Education



Finance









Gallery Walk





Gallery Walk
 One Hour... One Community... One Shared Vision

A Partnership Activity of:

ECONOMIC COUNCIL
OF MARTIN COUNTY, INC.

THE
EDUCATION
FOUNDATION
OF MARTIN COUNTY

THE MARTIN COUNTY SCHOOL DISTRICT
ADULT, SECONDARY AND VIRTUAL EDUCATION PROGRAMS



What role do businesses play in academies

Feedback
Partnerships
Support & Leadership
Local business - employ needs activities
Help determine local needs
Partnership opportunities for school leaders
Experiential learning opportunities for students

Business resources and facilities
Feedback
Support
Partnership opportunities for school leaders
Experiential learning opportunities for students

Partnerships
Support & Leadership
Local business - employ needs activities
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Explain what is important
 to know for working
 in the industry - not
 what FI standard say
 we must teach ✕



What works about academics; needs improvement; what should classrooms look like

What works:
 - curriculum based on what is needed at the level of study general.
 - I think the program should be well-rounded by the not working and then going into the job market.
 - Works: the information we receive about our future careers.
 - Rooms should provide the work place working conditions.
 - Needs: proper resources & environment to help prepare for the real world.
 - Should have computers that have internet access in order to have the most recent info.
 - needs improvement: equipment should be updated.
 - SMARTBOARDS!
 - needs equipment for each individual.
 - works: being able to practice the skills that are necessary in the real work system.
 - MORE FIELDTRIPS

Needs improvement:
 - less blocked websites
 - IMPROVEMENT:
 - BETTER EQUIPMENT
 - MORE PROFESSIONAL CLASSROOM ENVIRONMENT
 - FUNDS
 - SMARTBOARDS!
 - needs equipment for each individual.
 - works: being able to practice the skills that are necessary in the real work system.
 - MORE FIELDTRIPS

Classroom that looks more like a hospital

Micro-zoo for pets!
 - New Chairs
 - needs improvement
 - hours of marketing strategy
 - 2-5:00pm daily
 - NICE HOTEL
 - equipment that's use in the real world

Interpretation: The engineering industry needs to be more hands on with the equipment that workers need in real job requirements. Concepts are only 1/3 of what engineering is.



Career Academy Cadre Committee



One Hour...One Community...One Shared Vision



Thank You!