



FTYCMA

FLORIDA TWO-YEAR COLLEGE MATHEMATICS ASSOCIATIONS

<http://scf1.scf.edu/ftycma/default.htm>

Fall 2011 Issue

Volume 3.141592653589793238462643383279502884197169

Famous Math Quote

Mathematics knows no races or geographic boundaries; for mathematics, the cultural world is one country.
David Hilbert



A MESSAGE FROM THE CHANCELLOR



As Floridians struggle with the current economic crises, a record number are finding that the employment solution for them is as close as their local Florida college. What they will find there is the opportunity to change their lives. The 28 colleges of The Florida College System deliver this opportunity everyday to thousands of students who wish to improve their lives by obtaining a sustaining career, not just another job.

Within this report you find how The Florida College System Institutions provide these careers every day, with over 500 job specific career and technical programs and a number of targeted, high-need, high demand baccalaureate degree programs specifically designed to meet local workforce needs. Source Report <http://www.fldoe.org/cc/pdf/annualreport2011.pdf>

As a preview, take a look at these work related metrics of our system:

- Almost two-thirds (64.6%) of the fastest growing jobs will be in occupations that do not require a bachelor's degree, but do require the types of postsecondary education at the heart of The Florida College System's mission.
- All bachelor degree programs being developed and implemented require local business and industry input and support as well as data documenting current unmet employment needs.
- Incomes one year after graduation increase 50% or more for students who earn an associate degree or a credential relative to the incomes of a high school graduate.
- 67% of all nursing degrees awarded in Florida annually are awarded by The Florida College System.

Continued on the next page

To remove your name from our mailing list, please indicate via email to Professor Pal at drpal100@hotmail.com.

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- 73% of Florida's first responders (police, fire, EMTs and paramedics) graduate from Florida colleges.
- Our system was redefined in statute to offer baccalaureate degrees targeted to high-demand, critical shortage areas in Florida's workforce.

As you can see, our system's slogan "Your Working Solution" is spot-on. We take great pride in helping people realize their dreams and in supporting Florida's economic recovery by providing education and training for 21st century jobs. Within this report you will find a few of the stories behind the numbers. Men and women of all ages, backgrounds, and races have made tomorrow a better day for themselves and their families through an education in the community colleges, colleges, and state colleges that make up The Florida College System.



Sincerely,

Dr. Will Holcombe

Chancellor, The Florida College System

For all state reports and data the source is found at the link:

<http://www.fldoe.org/cc/pdf/>

From left to right Rick Pal, past FTYCMA Presidents , Byron Dyce, Bill Jordan, Mike Mears, Martha Goshaw, Don Ransford & VP of Southeastern Region AMATYC Donna Saye.



Editor's Notes



At next joint meeting of the FL_MAA on February 17th and 18th,2012 at University of North Florida I will turn over FTYCMA Presidency to my successor Professor Penny Morris of Polk State College. I shall continue as the FTYCMA newsletter editor and continue to support all FTYCMA and AMATYC initiative's. My immediate goals are to increase membership and profile of our organization. A personal thanks to outgoing FTYCMA board for services rendered to FTYCMA.

We are currently running an excellent deal for \$75 to be a lifetime membership of FTYCMA. Our website URL is [www.http://mcc1.mccfl.edu/ftycma/default.htm](http://mcc1.mccfl.edu/ftycma/default.htm). Our aim at FTYCMA is to provide each faculty member in the math departments at the 28 state/community colleges in the state of Florida this electronic newsletter. To that task I am requesting you to forward this

newsletter to as many of your colleagues as possible. We are an organization for you, the math faculty in the state of Florida teaching mathematics in the first two years of a college program. Good luck and have an excellent holiday season and upcoming semester.

To remove your name from our mailing list, please indicate via email to Professor Pal at drpal100@hotmail.com.



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SYSTEM FACTS AT A GLANCE

Who are we?

Colleges Total	28
Campuses	62
“Community” Colleges	9
“Colleges”	8
“State” Colleges	11

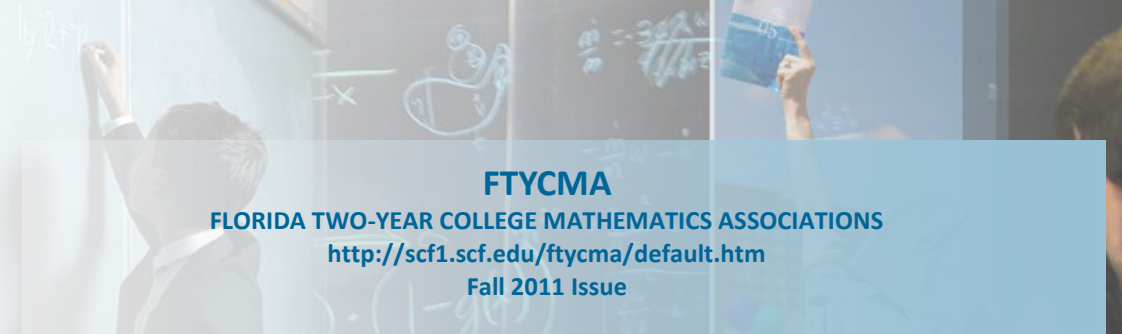
What was the level of funding for Florida’s colleges, 2010-11?

General Revenue	\$890 million
Student Fees	\$851 million
Lottery Funding	\$127 million
Federal Stabilization Funds	\$183 million

What do Florida College System students look like?

Total Unduplicated Annual Headcount, 2009-10
 Student Profile, Fall 2010 “award-seeking” students:

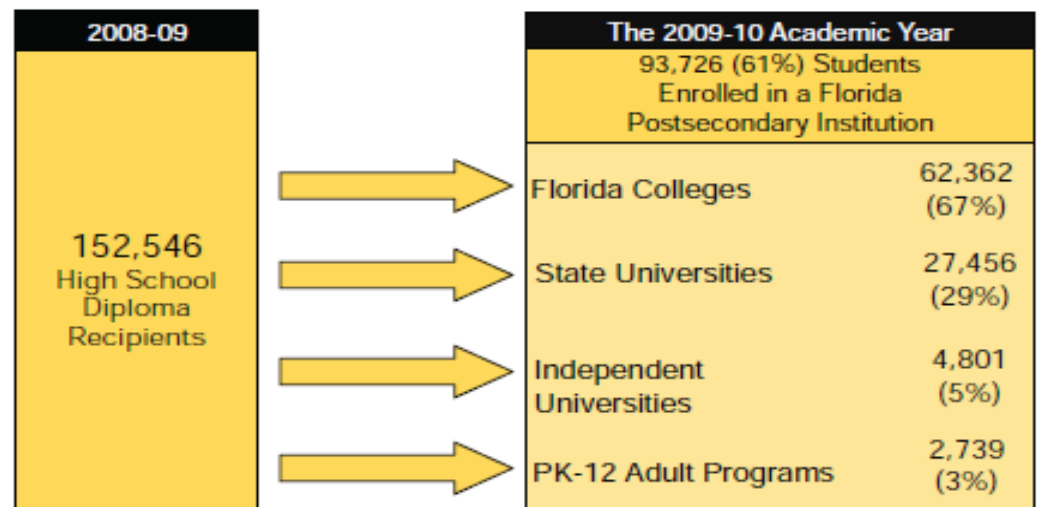
Students	900,000
Full-time students	39%
Part-time students	61%
Average student age	25 years
Gender	59% female
Minority enrollment	41%
High School (HS) students dual enrolled	41,991
HS students who earned Associate degrees	446



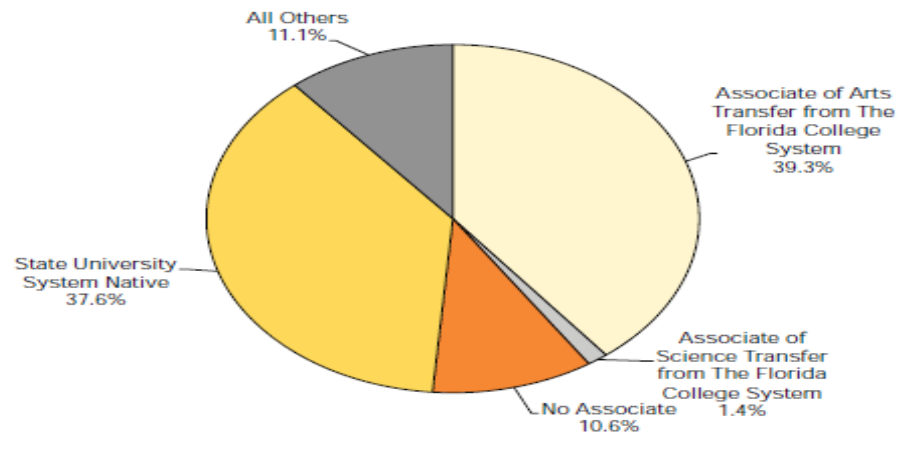
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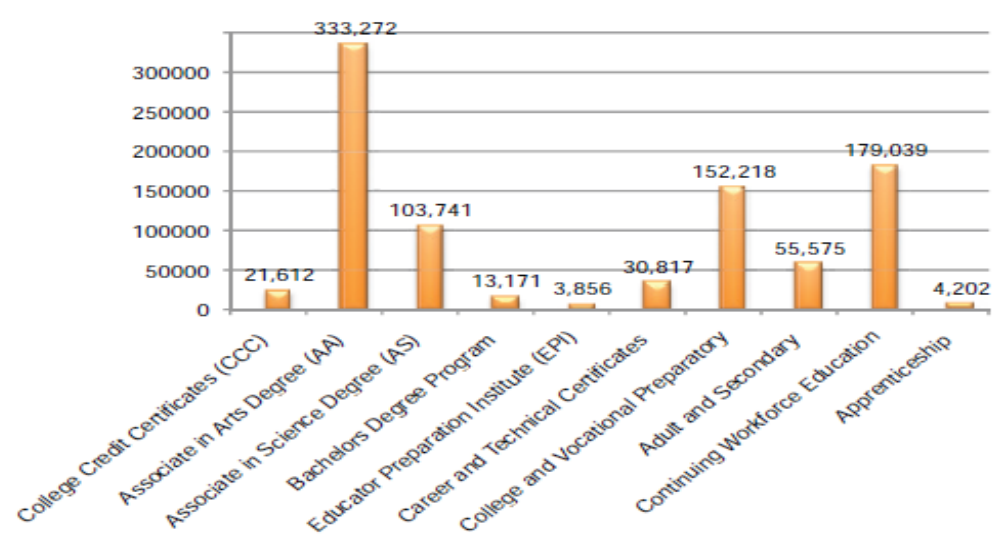
What happens after high school graduation?



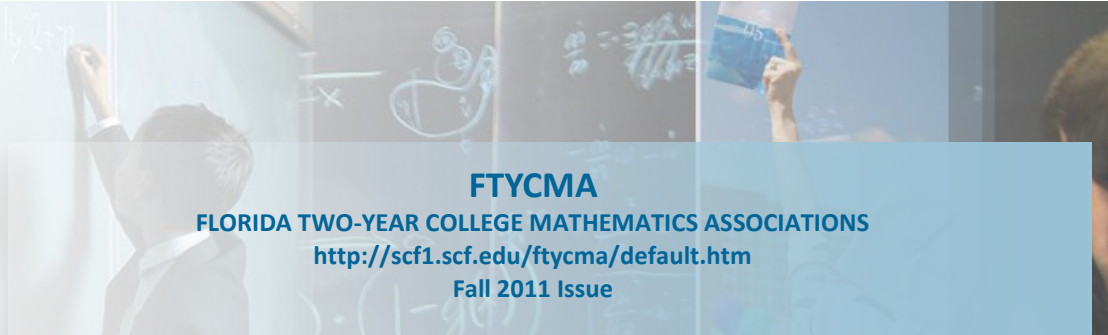
What percentage of students transferred to the State University System?



In which programs do students enroll?



*May reflect student enrollment in more than one program 2009-10



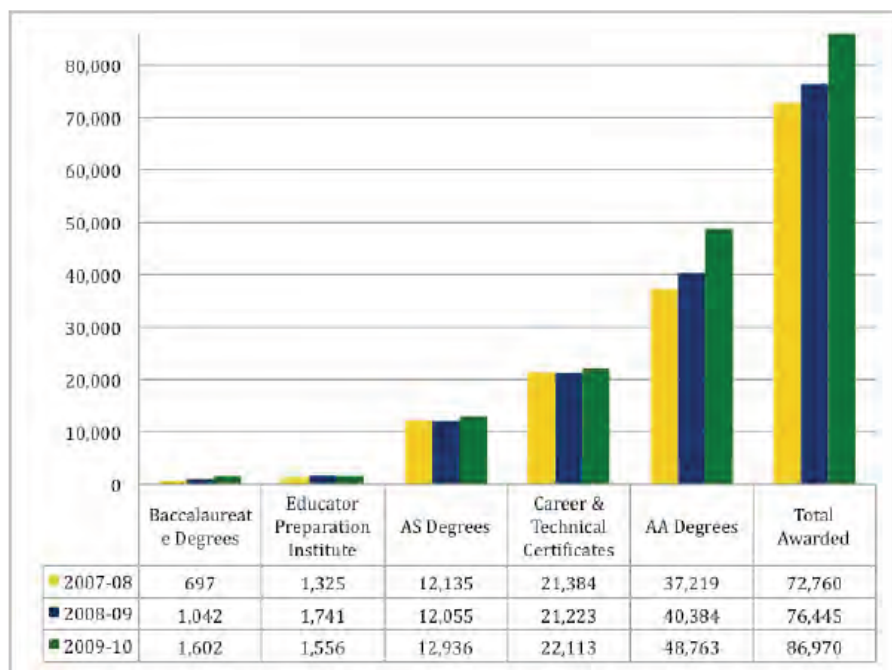
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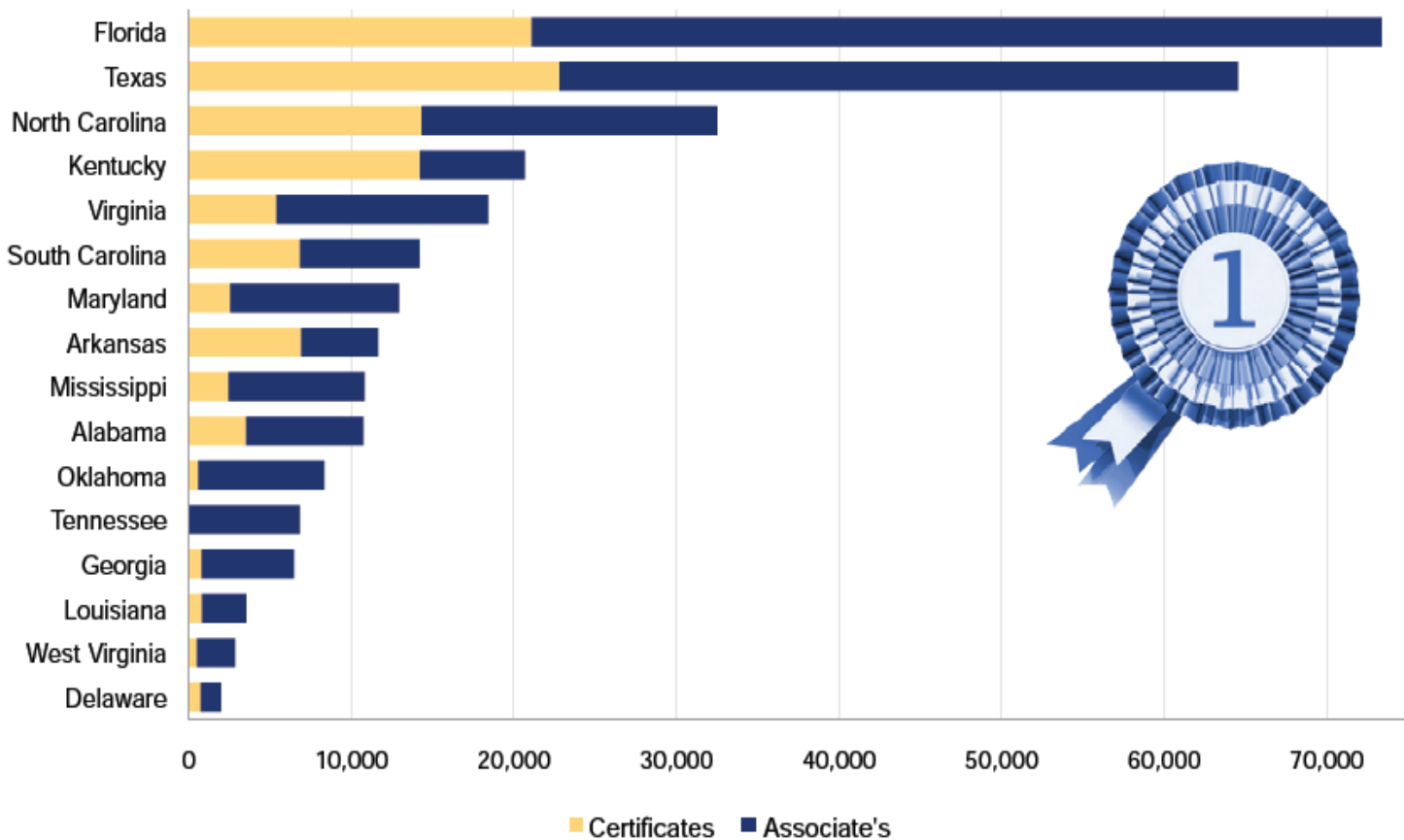
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What degrees do students earn in our system?



*In 2010, The Florida College System joined the **Complete College America Alliance**, pledging to double the number of graduates by the year 2020.*

How do we rank in degree production among the southern states?



ENROLLMENT AND BUDGET

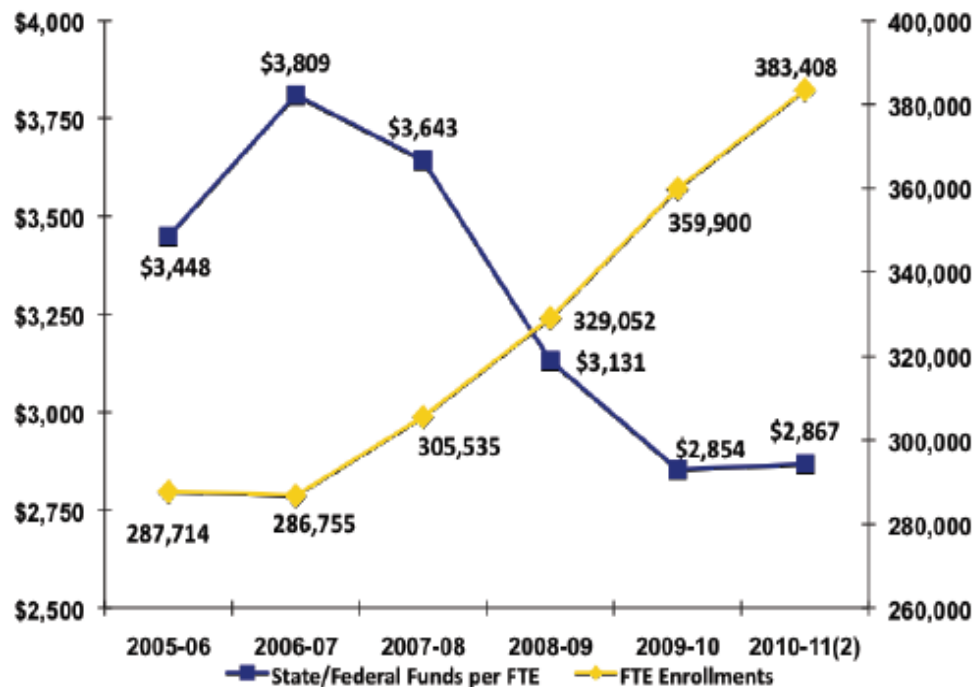
The current recession, which hit Florida particularly hard, has produced lower tax revenues which tend to collide with a fact of life at our colleges: Our enrollments tend to be counter-cyclical. When the economy is strong, people work and enrollments flatten. But when the economy softens, people see The Florida College System as their way back to the job market. Unfortunately, our enrollments go up while the funding usually goes down.

From 2006-07 through 2010-11, the colleges have added over 96,000 additional FTE*, an increase of 34%, while state funding has declined 25% per FTE.

The graph below illustrates this phenomenon:

From 2006-07 through 2010-11, the colleges have added over 96,000 additional FTE*, an increase of 34%, while state funding has declined 25% per FTE.

The graph below illustrates this phenomenon:



(1) Includes American Recovery and Reinvestment Act Federal Stimulus Funds for 2009-10 and 2010-11.

*Full Time Equivalent (FTE) is a way to compare a student enrollment between educational institutions. An FTE of 1.0 means that the person is equivalent to a full-time student while an FTE of 0.5 signals that the student is only half-time. FTE numbers are significantly less than the actual number of students we serve. A student enrolling in 30 semester hours per academic year equals 1.0 FTE

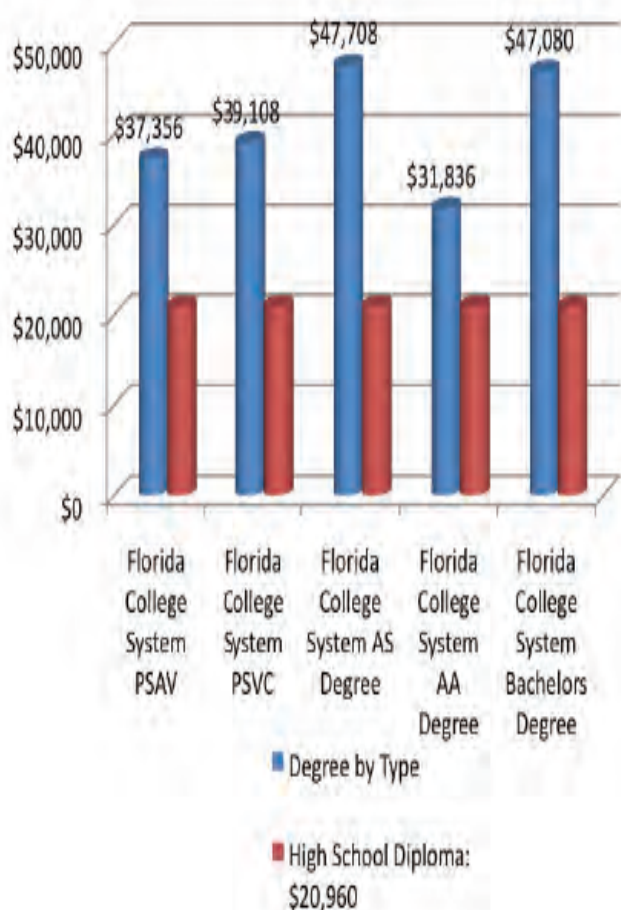


What do our graduates earn?

The value of an education cannot be underestimated. The Florida College System prides itself on ensuring affordable, relevant education opportunities for its students. We are working diligently to provide Floridians with an array of educational opportunities ranging from certificate programs to baccalaureate degrees. These programs are integral for the success of Floridians and to the overall recovery of Florida's economy.

The chart below illustrates the average median salary by degree in comparison to that of a high school diploma and secondary vocational certificate.

Average Median Starting Salary by Degree Level



PSAV: Postsecondary Adult Vocational-short term technical/vocational training
 PSVC: Postsecondary Vocational- short term college credit training
 AS: Associate in Science degree-career/technical focus
 AA: Associate of Arts degree-University parallel, lower division
 Bachelor's Degree: Bachelor of Science or Bachelor of Applied Science degrees in critical needs fields

“Almost two-thirds (64.6%) of the fastest growing jobs will be in occupations that require the types of postsecondary education at the heart of The Florida College System’s mission.”
 Florida Taxwatch



STEPPING UP THE FLORIDA COLLEGE SYSTEM STRATEGIC PLAN 2010-2015

Goal 1 EDUCATE FOR JOB CREATION AND ECONOMIC DEVELOPMENT:

Increase the alignment of degrees and certificates with the job needs of employers, both current and future.

- As a member of the Higher Education Coordinating Council, work to develop a dynamic strategic state vision for higher education that doubles the number of students majoring in STEM and other identified high need/high demand occupations by 2015.

Goal 2 INCREASE COMPLETION RATES:

Raise the state's postsecondary educational attainment level by actively contributing to improvements in college-readiness and student success initiatives, thereby increasing the percentage of certificates and degrees awarded annually.

- Increase the percentage of recent high school graduates who are assessed college-ready in all three subject areas prior to initial postsecondary enrollment from 46% to 54% by the year 2015.

Goal 3 EXPAND AND MAINTAIN ACCESS:

Increase affordable access to postsecondary educational opportunities throughout the state via the Florida College System.

- Increase the number of individuals who are educated by the Florida College System from 887,073 in 2010 to 1,068,000 (+181,000) by 2015, with an emphasis on increasing enrollments in targeted high need, high demand workforce occupations.

Goal 4 IMPROVE PERFORMANCE ACCOUNTABILITY:

Improve accountability by developing, adopting, and tracking benchmark measures of Florida College System (FCS) effectiveness and reporting them annually.

- Beginning in 2011, develop and distribute an annual report for the FCS, that focuses on progress in meeting system-wide goals.

Goal 5 OPTIMIZE USE OF LEARNING TECHNOLOGIES:

Expand the use of emerging technologies to enhance capacity, facilitate learning, and maximize cost-savings.

- Increase the percentage of students enrolled in FCS e-learning courses from 12% to 15% by 2015 and expand the availability via the "Orange Grove" of low-cost digital textbooks and other instructional resources by 50%.



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November 10-13, 2011 37th Annual AMATYC Conference, Austin, TX. Contact: AMATYC Office, amatyc@amatyc.org

November 8-11, 2012 38th Annual AMATYC Conference, Jacksonville, FL. Contact: AMATYC Office, amatyc@amatyc.org

October 31-November 3, 2013 39th Annual AMATYC Conference, Anaheim, CA. Contact: AMATYC Office, amatyc@amatyc.org



Julie Phelps of Valencia College, Orlando, FL and the AMATYC Pathway Liaison. Julie can be contacted at her email address:

jphelps@valenciacollege.edu

Statway and Quantway

UPDATE ON STATWAY AND QUANTWAY (FORMERLY MATHWAY)

by Julie Phelps and Jack Rotman (AMATYC Pathway Liaisons) in collaboration with Karon Klipple and Jane Muhich (Statway/Quantway Directors with the Carnegie Foundation for the Advancement of Teaching)

AMATYC continues to collaborate with the Carnegie Foundation for the Advancement of Teaching and the Charles A. Dana Center at the University of Texas at Austin on both *Statway* and *Quantway*.

What are Statway and Quantway?

Statway and *Quantway* are alternative mathematics pathways for non-STEM students currently under development by the Carnegie Foundation for the Advancement of Teaching and the Charles A. Dana Center. These yearlong pathways take developmental math students to and through a college-level credit bearing mathematics course. Carnegie's plan is to address the low success rate of developmental mathematics students by redesigning the curriculum and pedagogy for the target population, community college students who place into introductory algebra.

Statway redesigns traditional developmental mathematics by creating a one-year college level statistics pathway that integrates necessary mathematics learning along the way.

Quantway, formerly *Mathway*, is a two-semester mathematics pathway focused on mathematical literacy and

In addition, 3 California State Universities have been added to the *Statway* collaboratory. The first instantiation of *Statway* will launch during the fall of the 2011-2012 academic year.

The *Quantway* Collaboratory includes 8 colleges from 3 states: Georgia, New York and Ohio. The first semester of the *Quantway* pathway, *Quantway I* (formerly called MLCS) - the developmental mathematics course, will begin being offered at these colleges in spring 2012.

Latest News

The Winter Institutes

The *Quantway* and *Statway* Winter Institutes were held in Palo Alto, CA: *Quantway* on January 25-28 and *Statway* on January 29-February 2, 2011. The collaboratory colleges engaged in lesson study and review activities; discussions of pedagogy, language and literacy and professional development; the learning



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quantitative reasoning. The *Quantway* path will give students the foundational mathematical literacy and habits of mind needed to use quantitative information flexibly in the social sciences, other non-STEM disciplines, and as a responsible citizen. *Quantway* is a year-long pathway with two discrete semesters; the first semester is developmental mathematics, followed by a college level quantitative reasoning course.

What is a Collaboratory?

A collaboratory is a “center without walls” in which researchers work without regard to physical location, interacting with colleagues through a networked community. A networked community is an organizational form that includes social processes, collaboration techniques, formal and informal communication (Wulf 1989, Cogburn 2003).

At the heart of the work is what Carnegie is calling the Collaboratory, which is an interactive community made up of these selected community colleges, researchers and public/private partners. The Charles A. Dana Center at the University of Texas at Austin, headed by Uri Treisman—also a senior partner at Carnegie—is working with the Foundation to develop a common set of instructional resources, collecting a common set of data and beginning a process of continuous improvement.

Who are Collaboratory Colleges?

The first round of colleges participating in *Statway* or *Quantway* are called collaboratory colleges. Each collaboratory college team is comprised of three faculty, one administrator and one institutional research person. These colleges are part of the networked improvement community aimed at doubling the proportion of community college students who, within one year of community college enrollment, are mathematically prepared to succeed in further academic or occupational pursuits.

There are currently 19 *Statway* Collaboratory colleges in five states: California, Texas, Washington, Connecticut and Florida.

theory behind the *Quantway* and *Statway* instructional design principles; and psychological factors and interventions that may improve student motivation and engagement.

Quantway Quantitative Literacy and Reasoning Student Learning Outcomes Convening

The Carnegie Foundation for the Advancement of Teaching and the Dana Center hosted a gathering of Quantitative literacy and reasoning experts in Austin on February 25-27. This congenial group convened to develop the *Quantway's* quantitative literacy and reasoning student learning outcomes. These outcomes will inform the instructional design principles and lesson development for both semesters in the *Quantway* pathway. In addition to the learning outcomes, the convening participants discussed quantitative literacy assessment, teaching challenging pedagogies, and promoting the transfer of quantitative reasoning to novel situations. This convening group included 10 two-year and four-year college quantitative literacy experts: Bernie Madison, Univ of Arkansas (AK); Stuart Boersma, Central Washington Univ (WA); Deann Leoni, Edmonds CC (WA); Caren Diefenderfer, Hollins Univ (VA); Maura Mast, Univ of Massachusetts (MA); David Bressoud, Macalester College (MN); Eric Gaze, Bowdoin College (ME); Rebecca Hartzler, Edmonds CC (WA); Judith Moran, Trinity College (CT); and Rikki Blair, Lakeland CC (OH). This gathering also included Carnegie's AMATYC pathway liaisons and initial *Mathway* developers Julie Phelps, Valencia CC (FL); Jack Rotman, Lansing CC (MI); staff from the Carnegie Foundation; and staff from the Dana Center.

For more information on the initiatives, participating colleges, and student outcomes, visit the Carnegie Foundation website: www.carnegiefoundation.org.



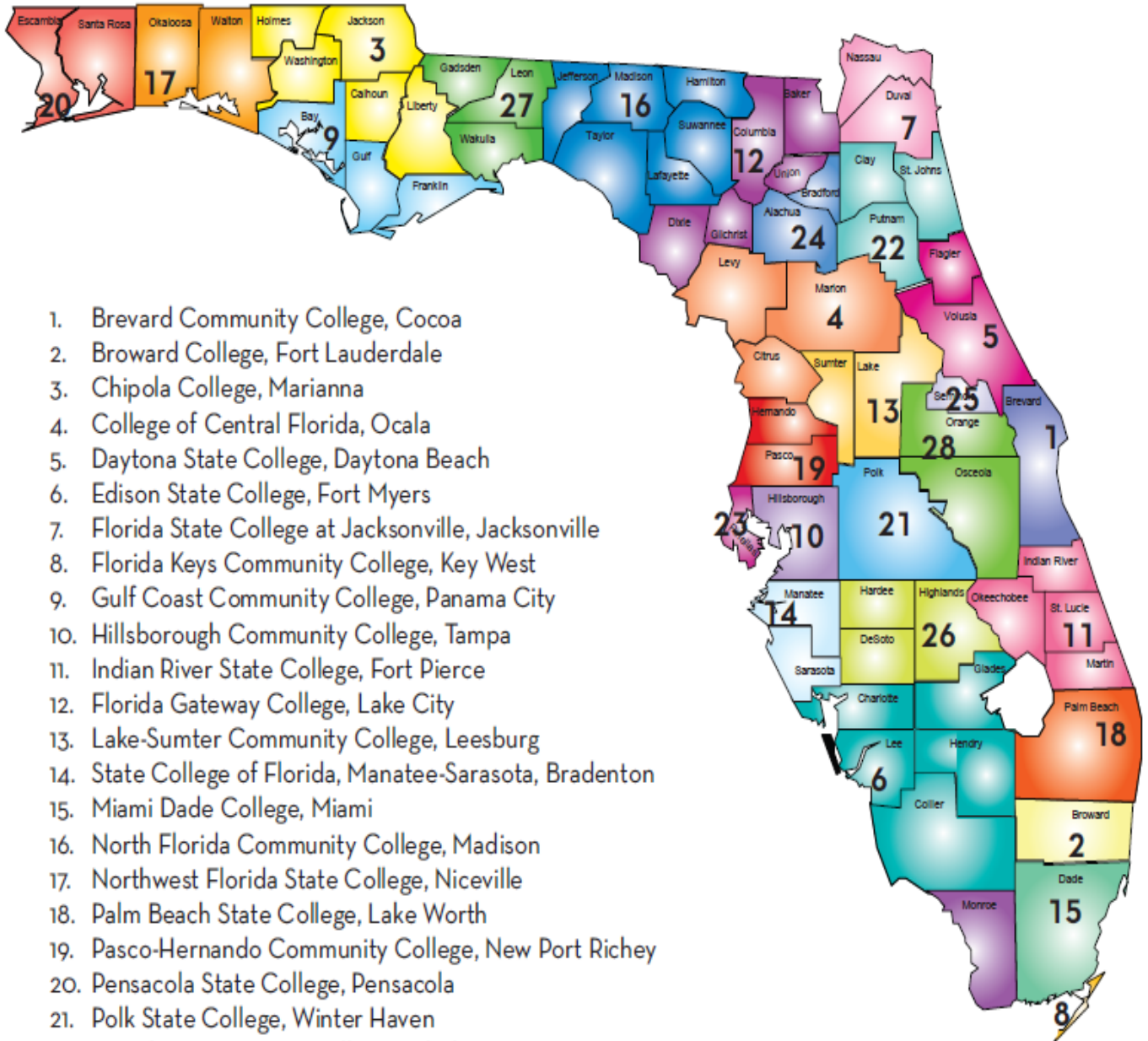
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1. Brevard Community College, Cocoa
2. Broward College, Fort Lauderdale
3. Chipola College, Marianna
4. College of Central Florida, Ocala
5. Daytona State College, Daytona Beach
6. Edison State College, Fort Myers
7. Florida State College at Jacksonville, Jacksonville
8. Florida Keys Community College, Key West
9. Gulf Coast Community College, Panama City
10. Hillsborough Community College, Tampa
11. Indian River State College, Fort Pierce
12. Florida Gateway College, Lake City
13. Lake-Sumter Community College, Leesburg
14. State College of Florida, Manatee-Sarasota, Bradenton
15. Miami Dade College, Miami
16. North Florida Community College, Madison
17. Northwest Florida State College, Niceville
18. Palm Beach State College, Lake Worth
19. Pasco-Hernando Community College, New Port Richey
20. Pensacola State College, Pensacola
21. Polk State College, Winter Haven
22. St. Johns River State College, Palatka
23. St. Petersburg College, St. Petersburg
24. Santa Fe College, Gainesville
25. Seminole State College of Florida, Sanford
26. South Florida Community College, Avon Park
27. Tallahassee Community College, Tallahassee
28. Valencia College, Orlando



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Community College Fact Book Library

The Fact Books have been moved to:

<http://www.fldoehub.org/CCTCMIS/c/Pages/default.aspx>



FTYCMA Rewards Outstanding Teaching and Service

In even numbered years, FTYCMA presents a Teaching Excellence Award to one of its members who has at least 5 years of teaching experience, has exhibited outstanding teaching ability, and has created or adapted innovative teaching methods or materials. (Special consideration is given by the committee to those who have shared such practices with colleagues.)

The list of past honorees is:

- 1994 Bill Jordan (Seminole state)
- 1996 Frank Ward (Indian River CC)
- 1998 Lou Cleveland (Chipola College)
- 2000 Bill Palow (Miami-Dade College)
- 2002 Martha Goshaw (Seminole CC)
- 2004 John Salak (Tallahassee CC)
- 2006 Dennis Runde (Manatee CC)
- 2008 Steven Grosteffon (Santa Fe CC)
- 2010 Debbie Garrison (Valencia CC)



In odd numbered years, FTYCMA presents an Outstanding Service Award to one of its members who has made an exemplary contribution to the teaching profession through length of service, advocacy of mathematics education, and contributions both to the success of FTYCMA and to the progress of others in the field.

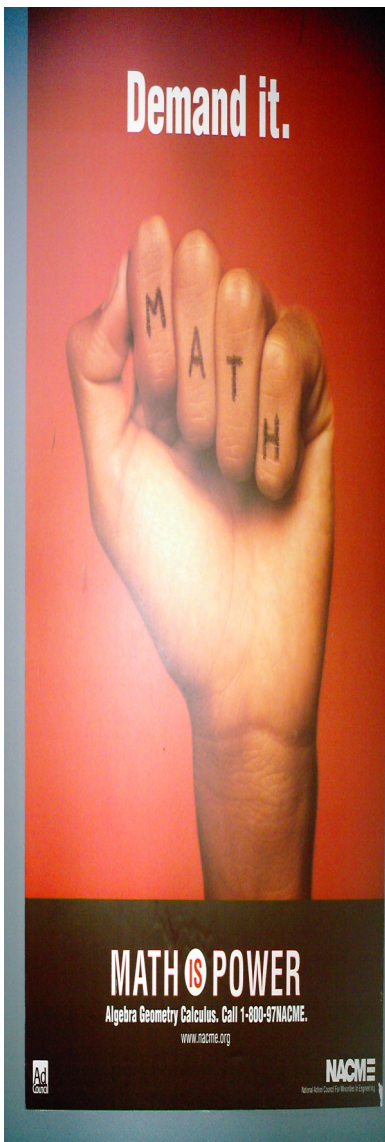
The list of past honorees is:

- 1993 Mike Mears (Manatee CC)
- 1995 Joan Golliday (Santa Fe CC)
- 1997 Moana Karsteter (Tallahassee CC)
- 1999 Glenn Smith (Santa Fe CC)
- 2001 Guesna Dohrman (Tallahassee CC)
- 2003 Carl Hensley (Indian River CC)
- 2005 Cliff Morris (Valencia CC)
- 2007 Norma Agras
- 2009 Janette Campbell (Palm Beach CC)
- 2011 Byron Dyce (Santa Fe College)

Each award recipient is recognized at the spring meeting with a plaque and a cash award of \$100; and since the next spring meeting will be in 2012 (an even-numbered year), it is time to consider a nominee for the Teaching Excellence Award.

If you would like to nominate a member of FTYCMA for the Outstanding Service Award, and you are currently a member, then forward the recommended person's name along with supporting documentation to D. Rick Pal at drpal100@hotmail.com.

To remove your name from our mailing list, please indicate via email to Professor Pal at drpal100@hotmail.com.





Benefits of the life membership include:

- ★ A certificate of lifetime membership
 - ★ A laminated wallet-sized membership card
 - ★ A FTYCMA lapel pin, and
 - ★ A reserved position in the honor roll of life members at the FTYCMA website.
- Current cost of a lifetime membership is \$150.
Current cost of an annual membership is \$10.

**Keep updated at
<http://scf1.scf.edu/ftycma/default.htm>**

FTYCMA Membership Form

Name _____

College _____

Address _____

Phones _____

Email _____

Are you a member of AMATYC ____ Yes ____ No

Mail completed form and (Special offer till February 18th, 2012

\$75 Lifetime Membership)

\$10 (annual) or \$150 (life membership) payment to:

(Please circle or underline which membership)



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