Choice & Innovation Subcommittee

November 16, 2023
12:00 PM
Reed Hall (102 HOB)

Meeting Packet

Committee Meeting Notice

HOUSE OF REPRESENTATIVES

Choice & Innovation Subcommittee

Start Date and Time:	Thursday, November 16, 2023 12:00 pm
End Date and Time:	Thursday, November 16, 2023 01:30 pm
Location:	Reed Hall (102 HOB)
Duration:	1.50 hrs

Presentations on secondary career and technical education by the Florida College Access Network and the Department of Education.

School district panel discussion on career and technical education.

To submit an electronic appearance form, and for information about attending or testifying at a committee meeting, please see the "Visiting the House" tab at www.myfloridahouse.gov.

NOTICE FINALIZED on 11/09/2023 4:16PM by Vernon.Andrea
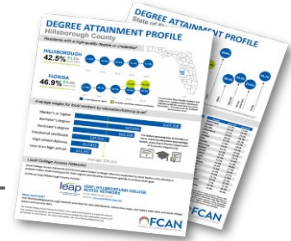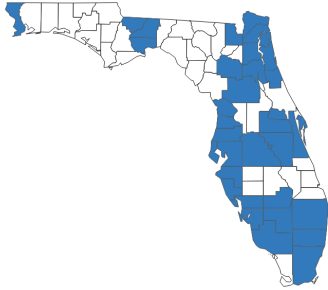
FCAN

Who is FCAN?

Launched in 2012, FCAN is Florida's collaborative network committed to ensuring all Floridians achieve an education beyond high school and a rewarding career. Whether a student chooses a CTE, 2-year, or 4-year credential, FCAN believes that education after high school is the pathway to economic mobility for Floridians.

FCAN also promotes policies that will lead Florida to achieve our SAIL to 60 Goal. In 2019, Governor DeSantis signed HB 7071 into law that created the Sail to 60 Initiative, which set a goal to increase the percentage of Floridians, ages 25-64, with a high-value postsecondary certificate, degree, or training by experience by 2030. Currently, we are at **52.5%.**

FCAN's Work

Research and Data: FCAN publishes research and data on evidence-based practices and policy opportunities to strengthen Florida's talent pool.

Advocacy: FCAN engages with stakeholders, policy makers and community-based organizations to find ways for improving every students' postsecondary journey.

Storytelling: FCAN focuses on students and their communities to understand and share the impacts of Florida's education policy.

Local College Access Networks (LCANs): FCAN provides financial supports and technical assistance to local coalitions made up of community leaders who come together to create solutions and partnerships to support local talent development.

Statewide Initiatives: FCAN coordinates 4 College Ready Florida initiatives that provides schools and community organizations resources to help students continue their education after high school.

Convenings for Collaboration: FCAN hosts and facilitates data-driven, solutions-oriented conversations with student success leaders at the community-based, institutional, and statewide levels.

Local College Access Networks (LCANs)

- Community-based collaborative networks committed to increasing college and career readiness, access, and completion rates for students within their communities who are outside the mold of the traditional college student – such as low-income students, adult learners, and first generation college students.
- Made up of K-12 school districts, higher education, nonprofits, local government, business and economic development, and philanthropy.
- 18 LCANs that represent 83% of Florida's population.

Achieve Escambia Cradle to Career — Escambia County

ASPIRE — Leon, Gadsden, Wakulla Counties

EARN UP — Baker, Clay, Duval, Flagler, Nassau, Putnam, St. Johns Counties

ACEC — Alachua County

ELEVATE BREVARD — Brevard County

GOMARION COLLEGE ACCESS — Marion County

uplift EU — Orange, Osceola, Seminole Counties

Citrus County

SPARK PASCO-HERNANDO Ignite Your Future! — Pasco, Hernando Counties

POLK LEAD — Polk County

leap TAMPA BAY — Hillsborough, Pinellas Counties

Achieve Palm Beach County — Palm Beach County

REACH MANATEE — Manatee County

PLANIT SARASOTA — Sarasota County

FutureMakers Coalition — Lee, Collier, Hendry, Glades, Charlotte Counties

FUTURE READY COLLIER — Collier County

Bridge 2 Life — Broward County

GRADUATE MIAMI DADE — Miami-Dade County

FLORIDA COLLEGE ACCESS NETWORK

Career and technical education (CTE) is a broad term that offers students "organized educational activities providing both academic content and technical skills in current or emerging professions and builds pathways connecting education and the workforce."*

*(American Educational Research Administration, 2021)

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FCAN Brief: Understanding Career and Technical Education

- List of common CTE terms and definitions

- Secondary vs. postsecondary

- Enrollment rates

- Examples of programs

- Recommendations

Understanding Career and Technical Education (CTE)

FLORIDA COLLEGE ACCESS NETWORK — August 2023

WHAT IS CAREER AND TECHNICAL EDUCATION (CTE)?

Career and Technical Education (CTE) is a broad term that offers students organized educational activities providing both academic content and technical skills in current or emerging professions, while building pathways connecting to education and the workforce.

CTE includes courses and programs at the secondary (middle and high school) and postsecondary (technical school and college) levels. CTE courses are often directly tied to specific professions or occupational fields. CTE also prepares students for the labor market more broadly by integrating CTE with academic standards. CTE courses and programs can lead to an industry-recognized credential, a certificate, an associate's degree, or further education.

IS CTE THE SAME THING AS VOCATIONAL EDUCATION?

CTE includes what is traditionally thought of as vocational education but is much broader. For much of the 20th century, vocational education centered around the skilled trades such as carpentry and plumbing, as well as career training programs in fields like cosmetology.

However, as technological advances gave rise to new careers, vocational education evolved to meet the changing needs of the labor market. Recognizing this, federal legislation in 2006 started using the term "career and technical education" instead "vocational education."

FLORIDA COLLEGE ACCESS NETWORK

IS CTE ONLY FOR STUDENTS WHO AREN'T COLLEGE BOUND?

No. Many college students and college-bound high school students take CTE courses to develop technical skills and gain hands-on experience to prepare for their future careers. Although some CTE credentials are the highest level of education achievable in that field, many are steppingstones to college degrees or higher credentials. Students today don't need to choose between college or CTE: they can do both.

Florida offers an assortment of educational pathways that give students the opportunity to "stack" credentials toward degrees in a variety of fields. Here are just a few examples of CTE programs that also provide college credit toward specific degrees.

Career Certificate	# of College Credit Hours	Degree
Practical Nursing	10 credits	Nursing R.N. A.S.
Web Development	6+ credits	Internet Services Technology A.S.
Network Systems Administration	9+ credits	Computer Engineering Technology A.S.
Electronic Technology	15+ credits	Electronic Engineering Technology A.S.
Carpentry	3+ credits	Building Construction Technology A.S.
Accounting Operations	6+ credits	Office Administration A.S.
Automotive Service Technology	19+ credits	Automotive Service Management A.A.S.
Florida Law Enforcement Academy	15+ credits	Criminal Justice Technology A.S.

Industry Certification	# of College Credit Hours	Degree
Aerospace/Aircraft Assembly	9 credits	Aerospace Technology A.S.
Cisco Certified Network Associate	12 credits	Computer Engineering Technology A.S.
Certified Culinarian	6 credits	Restaurant Management A.S.
Pharmacy Technician	9 credits	Pharmacy Management A.S.
Quickbooks Certified User	3 credits	Accounting Technology A.S.
Certified Apprentice Drafter - Architectural	3 credits	Architectural Design and Construction Technology A.S.
Air Conditioning Service Technician	3 credits	Air Conditioning, Refrigeration, and Heating Systems Technology A.A.S.
Certified Veterinary Assistant	3 credits	Veterinary Technology A.S.

HOW CAN FLORIDA CONTINUE TO STRENGTHEN CTE?

Even with recent advances in CTE, certain barriers persist. Efforts are underway to lower such barriers, and additional policies and investments can help to erase them.

Perception: Some Floridians, including parents, confuse today's CTE with the vocational education of the 20th century. Many believe that CTE only leads to modest-paying, dead-end jobs. The Florida Department of Education is working to change this perception through the Get There program, which aims to raise awareness of CTE as a modern approach to higher education and training with career opportunities in fields like cyber security, robotics, global finance, aerospace technology, and emergency planning and response.

Strengthening access to seamless "CTE to degree" programs: Florida offers many options to receive college credit for CTE courses that apply to degree programs, but more can be done to strengthen student access. For example, students are not always aware of the options available and can miss out on receiving college credit for their CTE coursework. Targeted partnerships between school district technical centers, state colleges, and other education providers can increase transfer options and help advise students of opportunities to continue their educations after completing their CTE program.

SEAMLESS CTE TO DEGREE: TECH EXPRESS

Tech Express is a partnership between Valencia College, Orange Technical College, and Osceola Technical College that makes it easy for CTE students to earn college credit and transition to a degree program. Students at each technical college campus have access to Valencia advisors who help them review their career options, understand the degree programs available, and assist them with applying and enrolling at the state college.

Technology and equipment: The technology and equipment needed for many CTE programs is expensive, and not all colleges and school districts—especially in rural areas—have the resources to offer a breadth of CTE programming due to costs. Through a combination of public funding, business investments, and industry partnerships, Florida can ensure that students across the state have a variety of CTE programs to choose from in their communities. For example, in 2023, the Florida Legislature addressed this need in SB 240 through the Workforce Development Capitalization Incentive Grant program for school districts and state colleges to create or expand CTE programs, and appropriated $100 million for its first year.

Common CTE Terms:

Articulation agreement: Formal agreement between two or more educational institutions that guarantee students who complete courses at one school to receive credit when the student transfers to another school.

Associate of Applied Science (A.A.S.) Degree: A degree that prepares graduates to enter a career immediately upon graduation. These are typically considered terminal degrees.

Associate of Science (A.S.) Degree: A two-year college degree. Credits can transfer toward earning a bachelor's degree in a related field.

Career Dual Enrollment: A program in which a high school student can enroll in a postsecondary (college or technical center) course that leads to an industry certification and credit toward a high school diploma.

Career Certificate: A program of study governed by the Florida Department of Education (DOE) that trains students in technical skills that enable them to work in specific careers. Examples include firefighter, correctional officer, insurance claims adjuster, and cosmetology.

Career Cluster: A grouping of occupations that are in the same field and require similar skills. There are 17 recognized career clusters in Florida. Examples include health professions and related programs; business, management, and marketing; mechanic and repair technologies; computer and information sciences; and engineering.

Career Pathway: A series of connected education and training strategies and support services that enable individuals to secure industry relevant certification and obtain employment within an occupational area and to advance to higher levels of education and employment in that area.

CTE Concentrator: A high school student who has completed at least two courses in a single CTE program or program of study, or a postsecondary (college, technical school) student who has earned at least 12 credits within a CTE program or a program of study, or completed a program that encompasses fewer than 12 credits or the equivalent.

CTE Participant: A high school student who has attained at least one CTE credit.

Industry-recognized credential: A credential awarded to individuals with the skills, experience, knowledge, and/or a set of competencies that are recognized as necessary or desired for a particular occupation by the relevant industry. These credentials can be awarded by an accredited educational institution (like a school district or college), an industry recognized association, or an occupational association or professional society, and can include certain college degrees, postsecondary certificates, licenses, certifications, and Registered Apprenticeship certificates.

Pre-apprenticeship: A program or set of services designed to prepare individuals to enter and succeed in a Registered Apprenticeship program. Pre-apprenticeship programs have documented partnerships with at least one Registered Apprenticeship program. Pre-apprenticeships help individuals meet the entry requirements for apprenticeship programs and prepare them for success.

Registered Apprenticeship: A formal employer-driven training model that combines on-the-job learning and related classroom instruction on the technical and academic aspects of the job. Registered apprenticeships have established learning standards that meet national and state quality expectations. Students who complete a Registered Apprenticeship program receive a national credential that is recognized anywhere in the industry.

Stackable Credential: Part of a sequence of credentials that can be accumulated over time to build up an individual's qualifications and help them move along a career pathway or up a career ladder to different and potentially higher-paying jobs.

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FloridaCollegeAccess.org

Florida College Access Network (FCAN) is Florida's collaborative network committed to ensuring all Floridians have the opportunity to achieve an education beyond high school and a rewarding career. We envision a Florida working together where education is the pathway to economic mobility for all.

As a nonpartisan organization, FCAN strives to expand knowledge of research, data, policies, and practices that impact postsecondary access and attainment in Florida. This paper is intended as an educational resource and does not constitute an endorsement or opposition to any specific bill or legislation. For more research and data from FCAN, visit www.floridacollegeaccess.org/research-and-data/.

FCAN is a statewide organization hosted by the University of South Florida System (USF). The statements and positions presented are those of FCAN and are not made on behalf of the USF Board of Trustees or intended in any way to be representative of USF.

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Secondary CTE in Florida

- Courses are eligible for additional funding
- Course examples: Certified Veterinary Assistant (CVA), Avionics Electronics Technician, Firefighter I, SQL Coding Specialist, and more!
- Career & Technical Education Graduation Pathway Option
- Career dual enrollment courses
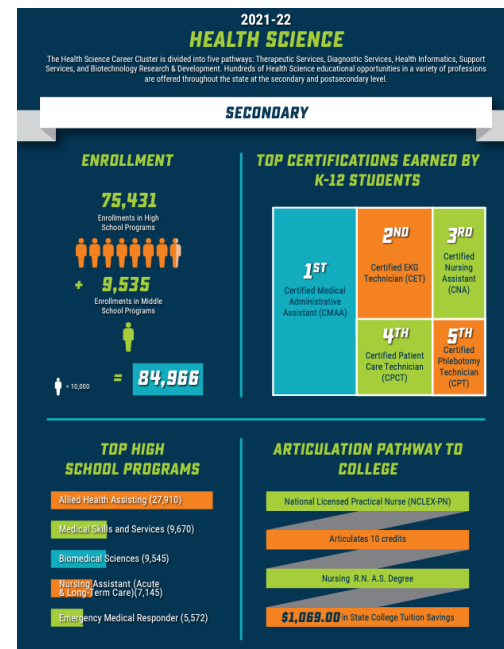
Example of Health Science Career Cluster at the secondary level (Florida's Get There Initiative)

Recent Changes from SB 240 (2023)

- Work-based Learning Opportunities for Students

- Annual Career Fairs

- Career Plans

- CTE Courses for Graduation

- Workgroup to identify enhanced middle school to high school pathways

Thank you!

DOE

Secondary Career and Technical Education (CTE) Advances

House Choice and Innovation Committee
November 16, 2023

GetThereFL.com

Florida's 17 Career and Technical Education (CTE) Pathways

Agriculture, Food & Natural Resources

Architecture & Construction

Arts, A/V Technology & Communication

Business Management & Administration

Education & Training

Energy

Engineering & Technology Education

Finance

Government & Public Administration

Health Science

Hospitality & Tourism

Human Services

Information Technology

Law, Public Safety & Security

Manufacturing

Marketing, Sales & Service

Transportation, Distribution & Logistics
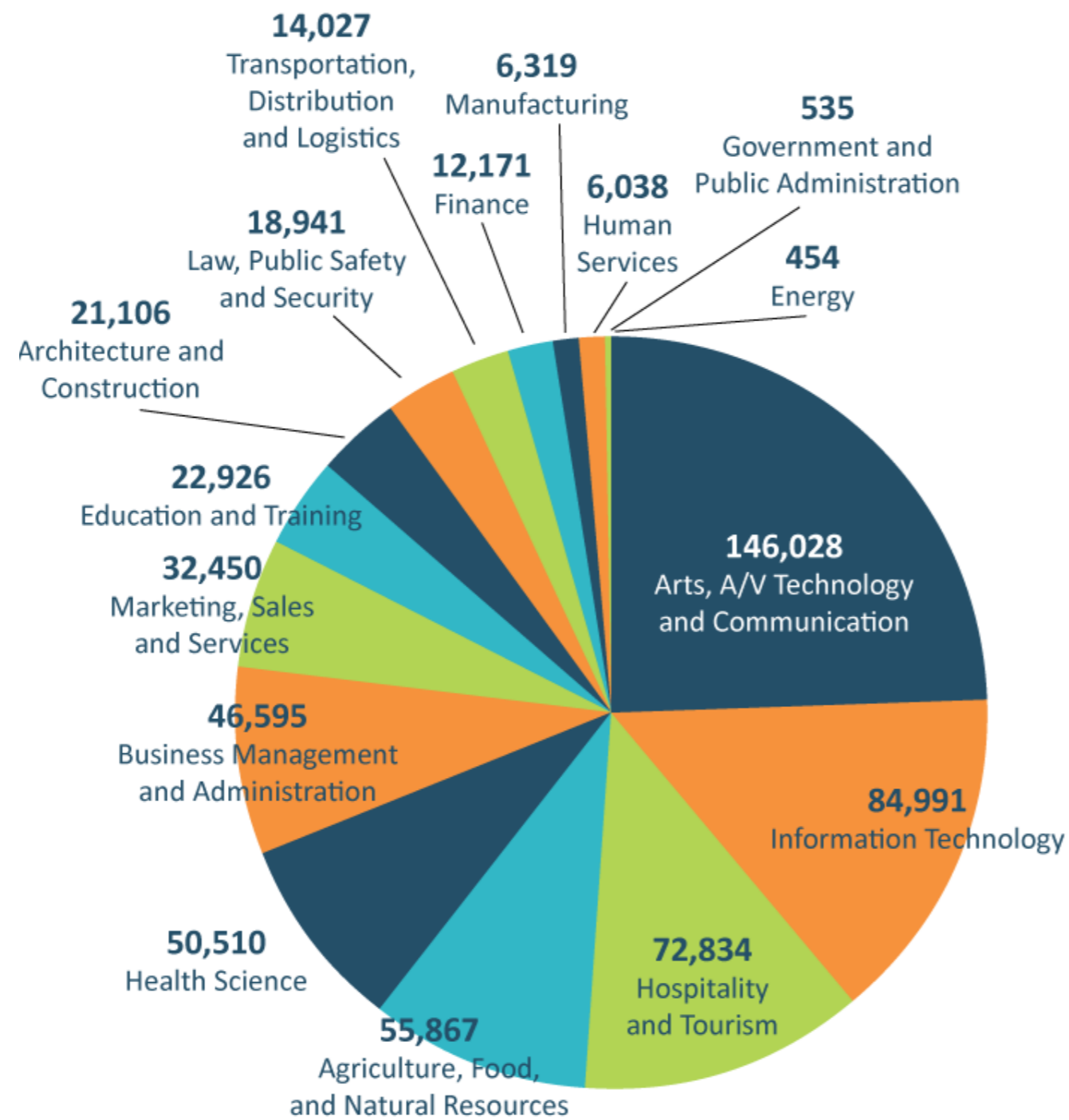
Secondary Career and Technical Education Enrollment Trend
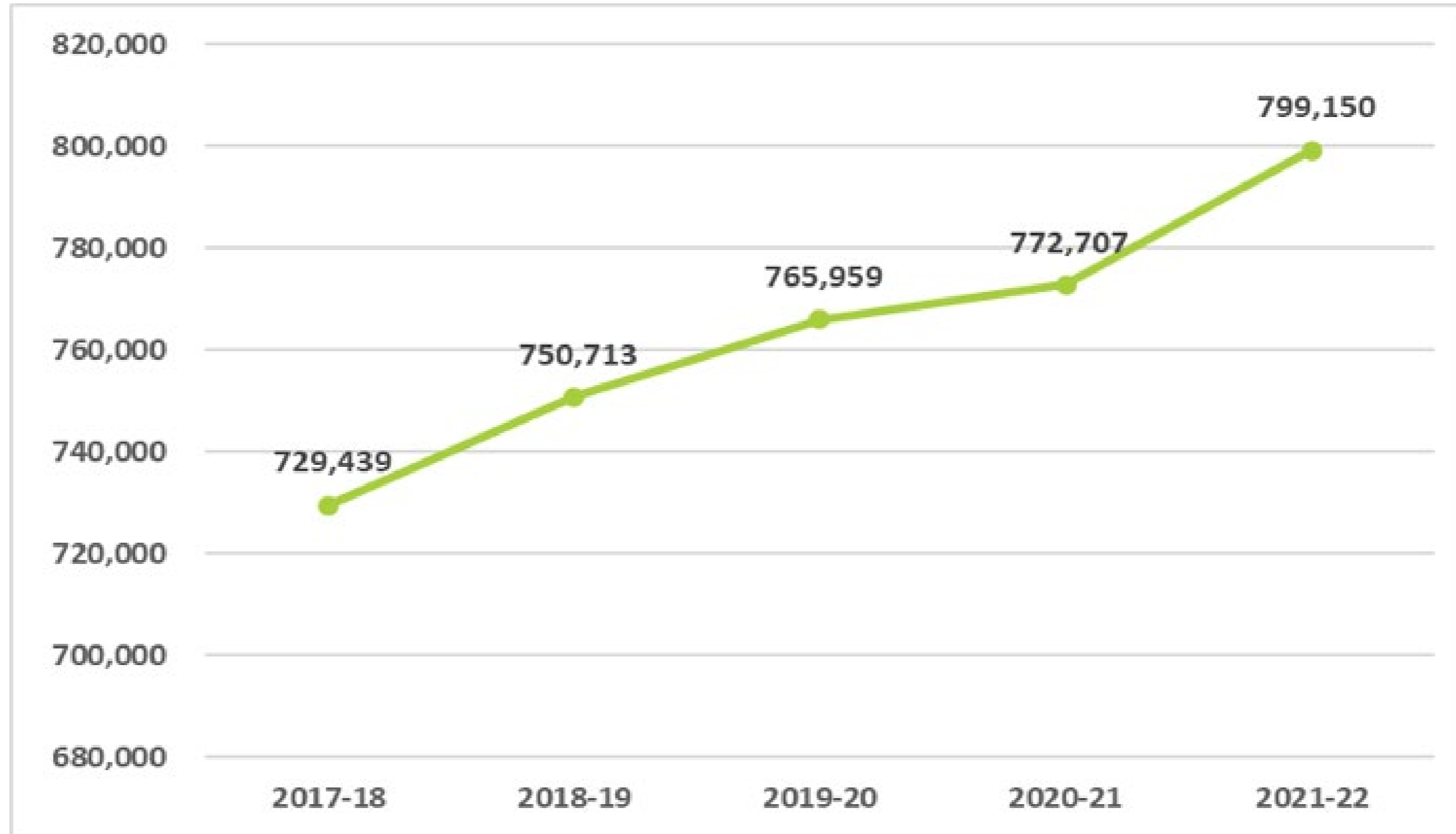
NOTE: This chart shows the number of students enrolled in any CTE program in grades 6-12 during the school year, including middle grades career exploratory.

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Secondary Career Preparatory (9-12) Enrollments by Career Cluster, 2021-22

14,027 Transportation, Distribution and Logistics

6,319 Manufacturing

535 Government and Public Administration

12,171 Finance

6,038 Human Services

454 Energy

18,941 Law, Public Safety and Security

21,106 Architecture and Construction

22,926 Education and Training

32,450 Marketing, Sales and Services

46,595 Business Management and Administration

50,510 Health Science

55,867 Agriculture, Food, and Natural Resources

72,834 Hospitality and Tourism

146,028 Arts, A/V Technology and Communication

84,991 Information Technology

Total = 591,792

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CAPE Career and Professional Academies Section 1003.493(1)(a) F.S.

A "career and professional academy" is a research-based program that integrates a rigorous academic curriculum with an industry-specific curriculum aligned directly to priority workforce needs established by the local workforce development board or the Department of Commerce.

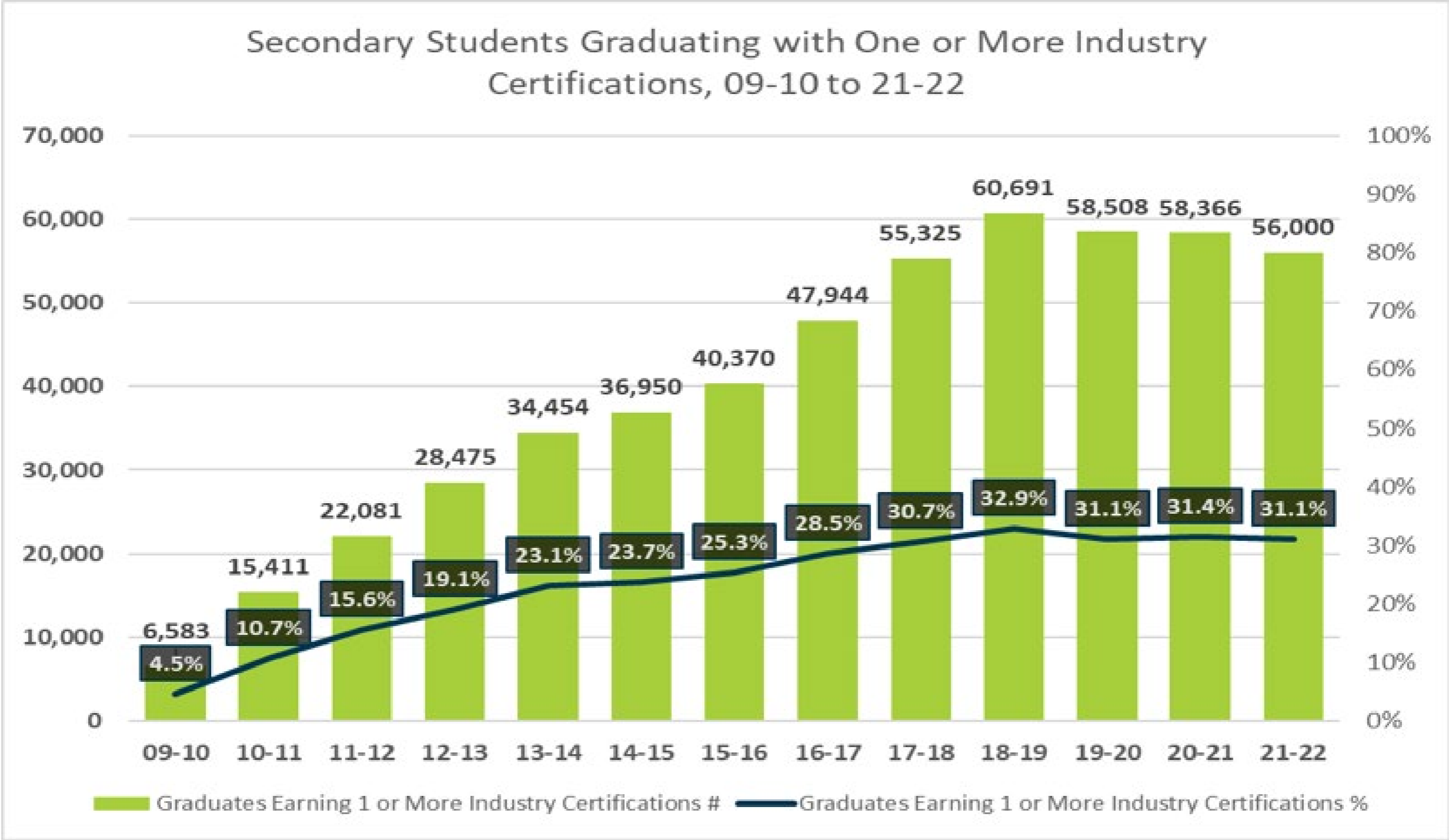- School districts are required to register their academies each school year with the state.

For the 2023-24 school year, we have **2,176** academies registered in **44** districts.

The top career clusters with registered academies are:
Information Technology, Arts, A/V Technology & Communication, Hospitality & Tourism, Business, Management & Administration, Health Science

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CAPE- Career-Themed Courses

- (s.)1003.493(1)(b) F.S. - A career-themed course is a course, or a course in a series of courses, that leads to an industry certification identified in the CAPE Industry Certification Funding List pursuant to rules adopted by the State Board of Education. Career-themed courses have an industry-specific curriculum aligned directly to priority workforce needs established by the local workforce development board or the Department of Commerce.
  - All career and technical education (CTE) courses are eligible to be registered as career-themed courses (CTC).
  - Non-CTE courses may be requested.
- Statute requires school districts to offer at least two career-themed courses and each secondary school is encouraged to offer at least one career-themed course.
- In the 2022-23 school year there were **1,028 distinct course numbers registered as career-themed course**.
  - Of the 67 school districts:
    - 28 Districts have more than 100 unique course numbers registered
    - All district have at least 18 courses registered

Percentage and Number of Students Graduating with an Industry Certification

Secondary Students Graduating with One or More Industry Certifications, 09-10 to 21-22

School Year	Graduates #	Graduates %
09-10	6,583	4.5%
10-11	15,411	10.7%
11-12	22,081	15.6%
12-13	28,475	19.1%
13-14	34,454	23.1%
14-15	36,950	23.7%
15-16	40,370	25.3%
16-17	47,944	28.5%
17-18	55,325	30.7%
18-19	60,691	32.9%
19-20	58,508	31.1%
20-21	58,366	31.4%
21-22	56,000	31.1%

Graduates Earning 1 or More Industry Certifications # — Graduates Earning 1 or More Industry Certifications %

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Florida's Workforce Education Initiative

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CAREER AND ADULT EDUCATION

Gold Standard Career Pathways

- Gold Standard Career Pathway Articulation Agreements set a statewide minimum guarantee of college credit toward the award of an AAS or AS degree for earned industry certifications. All agreements below are for 3 college credits.

Industry Certification Name	Associate Degree(s) Program Title
Entrepreneurship & Small Business	Business Administration, Business Entrepreneurship
Certified Food Protection Manager (ServSafe®)	Restaurant Management, Culinary Management
Adobe Certified Professional in Visual Design	Graphics Technology
Microsoft Technology Associate (MTA) - Mobility and Devices Fundamentals	Computer Information Technology, Database Technology
Certified Food Safety Manager	Baking & Pastry Management, Restaurant Management, Culinary Management
Autodesk Certified User - AutoCAD	Architectural Design & Construction Technology, Computer-Aided Drafting and Design
Autodesk Certified User - Inventor	Engineering Technology
Autodesk Certified User - Fusion 360	Engineering Technology
CompTIA IT Fundamentals+	Computer Information Technology, Computer Programming and Analysis, Network Systems Technology, Data Science Technology

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Other Articulation Options for Secondary Students

- For students completing high school CTE programs:
  - Local Articulation Agreements from Secondary to Postsecondary Programs may be developed between the school district and area postsecondary institutions.
- For career dual enrollment students who complete a career certificate through dual enrollment while in high school:
  - Career Certificate to Associate in Science/Applied Science Degree Statewide Agreements and Regional Career Pathways Agreements may be used toward advancement to a related degree program.

Florida's Career Planning and Work-based Learning Coordination System Xello!

- Starting this year, Florida's Career Planning and Work-Based Learning Coordination System, Xello, was launched with the support of legislative funding. It's comprised of three interactive and age-appropriate modules and allows students to explore, plan and prepare.

- Currently, over 1,000,000 Florida students are in the system and over 5,000 Florida educators have been trained on how to use the system.

One Program, Three Pillars

Xello K-2

Xello begins as early as Kindergarten and takes students through games to learn the meaning of careers.

Xello 3-5

This pillar engages students in building self-knowledge, exploring interest-related career options and setting achievable goals.

Xello 6-12

In this pillar, students take assessments that inspire deeper career exploration, career planning and are introduced to work-based learning.

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Annual High School Career Fairs
for Juniors and Seniors

- Starting in the 2023-24 school year, all district high schools must host a career fair, either individually or as a collaboration between multiple high schools and/or districts.
  - Must be during the school day, held on the campus of the high school or within reasonable driving distance, cater to grades 11 and 12 and allow students to meet or interview with potential employers.
  - May integrate Florida's online career planning and work-based learning system, Xello.

- The Department is encouraging districts to collaboratively support the coordination of career fairs across their district in collaboration with local chambers of commerce, CareerSource, economic development agencies, technical colleges, FCS institutions and universities.

- The Department is developing a complete Career Fair Toolkit that includes strategies on who to invite, how to host and how to market it to students.

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Middle School Career and Education Planning Best Practices Workgroup

- FDOE is forming a workgroup to "Identify best practices in career and technical education pathways from middle school to high school..." As required in s.1003.4282(10), F.S.

- By the end of this process, the FDOE Workgroup will produce:
  - A report outlining middle school career and education planning best practices.
  - An inventory of middle school, high school and postsecondary program alignments.
  - Recommendations for Florida's career and education planning courses.
  - Recommendations of math pathways (algebra through calculus, statistical reasoning and mathematical thinking in context) aligned at the career cluster level.

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Work-Based Learning

- The term "work-based learning opportunity" means an interaction with industry or community professionals that occurs in a workplace setting, to the extent possible, or a simulated environment at an educational institution that allows firsthand experience with tasks required in a given career field, is aligned with curriculum and instruction, and is provided in partnership with an educational institution.

Career Exploration (Not Full WBL)	Career Exposure (Not Full WBL)	Career Engagement	Career Experience
• Career Fairs • Interest Inventories • Mock Interviews • Guest Speakers	• Job Shadowing • Mentoring • Informational Interviews • Company Tours	• School-Based Enterprise • Service Learning • Guided Entrepreneurship • Capstone/Industry Project • Virtual/Simulated WBL	• Apprenticeship OJT • Preapprenticeship OJT • Internships • Cooperative Ed OJT • Clinicals • Practicum

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Career and Technical Student Organizations (CTSOs) and Credit for Work-based Learning

- Per s. 1003.4282, F.S. (2023), the State Board of Education is required to establish a process that **enables a student to receive work-based learning or credit in electives for completing a threshold level of demonstrable participation in extracurricular activities associated with CTSO.**

- As a result, for example, a student who completes a supervised agricultural experience through the FFA would receive a work-based learning credit or elective credit. The bill prohibits eligibility for work-based learning credit or credit in electives for extracurricular activities or supervised agricultural experiences to be limited by grade level.

Preapprenticeships and Apprenticeships

In 2022-23:
62% of preapprentices completed their program in the expected timeframe (324 individuals)

2,135 apprentices completed their program, **an increase of 218 over last year.**

There are currently **20,000** apprentices and preapprentices who are learning and earning across numerous industries – **a 14% increase in the total number** of active apprentices and preapprentices.

The apprentices who completed their program and received an apprenticeship certificate of completion earned an average exit wage of **$25.70 per hour**, which equates to an annual salary of $53,642, **an increase of $4,013 over the previous year.**

In 2022-23, 36 new apprenticeship programs were registered, for a total of **303** active apprenticeship programs and 12 new preapprenticeship programs were registered, for a total of **62** active preapprenticeship programs.

New Funding Approved by the Governor and Passed by the Legislature: Opportunities for K-12 CTE

Career Education 9-12 Base Weight

- An additional 0.08 FTE for 9-12 Career Education compared to regular 9-12 basic.

Middle Grades Cap Removal

- Beginning with the 2023-2024 FEFP calculation, all industry certifications and digital tool certificates earned in middle school will be fully funded.

Career Pathway plus Industry Certification

- 0.3 FTE for student completion of at least three courses and an industry certification in a single CTE program or program of study.

Career Dual Enrollment Course with "A" Grade

- 0.08 FTE for each student who completes a dual enrollment career course with a grade of "A" in a pathway that leads to an industry certification on the CAPE Industry Certification Funding List.

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Workforce Development Capitalization Incentive Grant Program

- For 2023-24, **$100 million** for the Workforce Development Capitalization Incentive Grant Program.
- Eligible applicants:
  - A school district offering secondary career and technical education programs, and
  - Any of the following institutions which offer career dual enrollment programs: a school district career center under s.1001.44, F.S., a district charter technical career center under s. 1002.34, F.S., or a Florida College System institution under s. 1000.21(3), F.S.
- Eligible programs (must lead to certification on the CAPE funding list):
  - Multi-course secondary career preparatory or technology education program, and
  - Postsecondary career education program in which secondary students are dual enrolled.
- FDOE is prioritizing programs linked to the semiconductor industry for at least 25% of available funds.
- In review period 1, 61 concept proposals were received:
  - 34 for High School CTE programs
  - 27 for Career Dual Enrollment programs
    - 18 from School District Postsecondary
    - 9 from Florida College System institutions
- Review period 2 closes on November 17; review periods will continue until all funds are awarded.

Thank you!

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