

AGRICULTURE, FOOD & NATURAL RESOURCES

The Agriculture, Food and Natural Resources programs prepare students for careers in a highly technical and ever changing sector of the global economy. These programs provide a career pathway to a wide variety of careers in agritechnology, animal science, plant science, food products & processing and environmental science.

2019-20



enrollments in High School programs



+ 30,293

enrollments in Middle School programs





77,619

TOP CERTIFICATIONS EARNED BY K-12 STUDENTS

Agriculture Associate Certification Agriculture Systems Associate Certification

Agritechnology Specialist Certification

Certified Veterinary Assistant (CVA)

Animal Science Specialist Certification

TOP HIGH SCHOOL PROGRAMS

Agritechnology (14,866)

Veterinary Assisting (8,248)

Animal Science & Services (7,006)

Agricultural Communications (2,898)

Horticultural Science & Services (2,671)

ARTICULATION PATHWAY TO COLLEGE

Agritechnology Specialist Certification (FLFBR001)

Articulates 2 credits

Agricultural Production Technology A.S. Degree

\$213.68 in State College Tuition Savings

462
DISTRICT POSTSECONDARY
PROGRAMS

100% 9

districts

TOP PROGRAMS

Veterinary Assisting (401)

Waste/Wastewater Treatment Technologies (41)

TOP CERTIFICATIONS EARNED BY DISTRICT POSTSECONDARY STUDENTS



certificate





EMPLOYMENT OUTLOOK

HIGH WAGE \$23.07

per hour Mean Wage

First Line Supervisors, Landscaping, Lawn Service and Groundskeeping Workers ANNUAL OPENINGS 2,758

Annual Openings

Sales Representatives, Wholesale & Manufacturing, Tech. & Scientific Products





ARCHITECTURE & CONSTRUCTION

The Architecture and Construction Career Cluster prepares students for careers in designing, planning, managing, building and maintaining the built environment. Examples of careers include drafters, electricians, construction managers and plumbers.

2019-20

18,925

enrollments in High School programs



enrollments in Middle School programs



= 1,000



TOP CERTIFICATIONS EARNED BY K-12 STUDENTS

Autodesk Certified User -AutoCAD

> NCCER Carpentry Level 1

Autodesk Certified User -Inventor

Pre-Apprenticeship Certificate Training (PACT), Building Construction Technology

> NCCER Electrical -Level 1

TOP HIGH SCHOOL PROGRAMS

Building Trades/Construction (6,230)

Building Construction Tech (4,674)

Drafting (2,490)

Carpentry (1,723)

Architectural Drafting (1,194)

ARTICULATION PATHWAY TO COLLEGE

Autodesk Certified User - Revit Architecture (ADESK008)

Articulates 3 credits

Building Construction Technology A.S. Degree

\$320.52 in State College Tuition Savings

13,111
DISTRICT POSTSECONDARY
PROGRAMS

39%
61%

districts

1,083 1,261 1,365 2,171 3,733

Plumbing

Appren.

A/C

Technology

Electrician

Appren.

TOP PROGRAMS

TOP CERTIFICATIONS EARNED BY DISTRICT POSTSECONDARY STUDENTS

A/C Tech

Appren.

Electricity

Apprenticeship



certificate





EMPLOYMENT OUTLOOK

HIGH GROWTH
2.1%

Growth Rate

Structrual Iron & Steel Workers HIGH WAGE \$21.26

per hour Mean Wage

Electricians

ANNUAL OPENINGS

7,355

Annual Openings

Carpenters





ARTS, A/V TECHNOLOGY & COMMUNICATION

The Arts, A/V Technology and Communications Career Cluster encompasses audio/video technology and film, journalism and broadcasting, performing arts, printing technology, telecommunications, and visual arts. Students prepare for these careers by designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design.

2019-20



enrollments in High School programs



+ 19,417

enrollments in Middle School programs



= 10,000

158,119

TOP CERTIFICATIONS EARNED BY K-12 STUDENTS

Adobe Certified Associate (ACA) Photoshop Microsoft Office Specialist (MOS) Bundle Adobe Certified Associate (ACA) Illustrator Adobe Certified Associate (ACA) Premiere Pro

Certified Internet Web (CIW) Internet Business Associate

TOP HIGH SCHOOL PROGRAMS

Digital Design (73,809)

Digital Media/Multimedia Design (14,641)

Television Production Technology (9,049)

Television Production (8,946)

Digital Video Technology (7,235)

ARTICULATION PATHWAY TO COLLEGE

Apple Certified Pro (ACP) - Final Cut Pro X (APPLE020)

Articulates 3 credits

Digital Television and Media Production

\$320.52 in State College Tuition Savings

3,120
DISTRICT
POSTSECONDARY
ENROLLMENTS

16 DISTRICTS



TOP PROGRAMS

Digital Video Technology (871)

Digital Photography Technology (736)

Digital Media/Multimedia Design (407)

3D Animation Technology (277)

Commercial Art Technology (187)

EMPLOYMENT OUTLOOK

HIGH WAGE **\$22.57**

per hour Mean Wage

Graphic Designer

ANNUAL OPENINGS
1.771

Annual Openings

Graphic Designer







BUSINESS MANAGEMENT & ADMINISTRATION

The Business Management and Administration Career Cluster programs prepare students for careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Career opportunities in this cluster are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.

2019-20



enrollments in High School programs



95,070

enrollments in Middle School programs





147,976

TOP HIGH SCHOOL PROGRAMS

Administrative Office Specialist (15,754)

Accounting Applications (6,567)

Emerging Technology in Business (5,886)

Electronic Business Enterprise (5,511)

Business Management and Analysis (5,173)

TOP CERTIFICATIONS EARNED BY K-12 STUDENTS

Microsoft Office Specialist (MOS) Bundle CIW Internet Business Associate Quickbooks Certified User

Adobe Certified Associate (ACA) Photoshop Adobe Certified Associate (ACA) Illustrator

ARTICULATION PATHWAY TO COLLEGE

Professional Legal Secretary (PLS) (TAFLP002)

Articulates 9 credits

Office Administration A.S. Degree

\$961.56 in State College Tuition Savings

2,003DISTRICT
POSTSECONDARY
ENROLLMENTS

20 DISTRICTS



TOP PROGRAMS

Medical Admin. Specialist (734)

Accounting Operations (531)

Admin. Office Specialist (320)

Business Management Analysis (202)

Legal Admin. Specialist (150)

EMPLOYMENT OUTLOOK

ANNUAL OPENINGS 8,647

Annual Openings

General and Operations Managers

HIGH GROWTH
2.46%

Growth Rate

Medical Secretaries

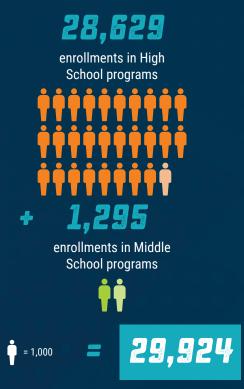




EDUCATION & TRAINING

The Education and Training Career Cluster programs offer students educational opportunities, training services, and related learning support with an emphasis on improving public education services. The three pathways include Administration and Administrative Support; Professional Support Services and Teaching/Training.

2019-20



TOP HIGH SCHOOL PROGRAMS

Early Childhood Education (18,661)

Principles of Teaching (6,124)

Child Development (3,058)

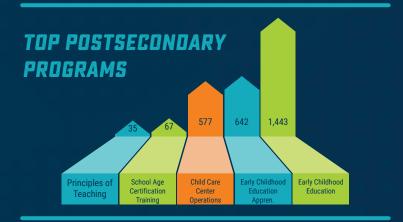
TOP CERTIFICATIONS EARNED IN K-12

Child Development Associate (CDA) (1,041)

Certified Food Protection Manager (ServSafe®) (334)

DISTRICT 2,764 POSTSECONDARY PROGRAMS 15

Districts



ARTICULATION PATHWAY TO COLLEGE

Pathway to College Child Development Associate (CDA) (CPREC001)

Articulates 9 credits

Early Childhood Education A.S. Degree

\$961.56 in State College Tuition Savings

*Articulation in this career cluster varies per local institution.





ENERGY



The Energy Career Cluster programs prepare students for careers in planning, managing and providing technical support services related to generation, transmission and distribution of various types of energy. Examples of careers include technicians, lineworkers, pipelayers and welders.

2019-20



enrollments in High School programs



enrollments in Middle School programs



= 100

975

TOP HIGH SCHOOL PROGRAMS

Energy Technician (277)

Energy Generation Technician (117)

Solar Energy Technology (66)

TOP CERTIFICATIONS EARNED IN K-12

NCCER Electrical Level 1

DISTRICT 410 POSTSECONDARY PROGRAMS



TOP CERTIFICATIONS EARNED IN K-12

Electrical Line Service and Repair Appren. (318)

Solar Photovoltaic System Design Installation & Maintenance (49)

ARTICULATION PATHWAY TO COLLEGE

Energy Technician Program

Articulates 3 credits

Electrical Distribution Technology A.A.S. Degree

\$320.52 in State College Tuition Savings

*Articulation in this career cluster varies per local institution.





ENGINEERING & TECHNOLOGY EDUCATION

The Engineering & Technology Education Career Cluster prepares students for careers as engineers and technologists through the introduction of certain processes in mathematics, science and technology. Students learn how to apply mathematics, science and technology concepts to solve problems quantitatively in engineering projects involving design, development or production in various technologies.

2019-20



enrollments in High School programs



+ 54,137

enrollments in Middle School programs



= 10,000

102,788

TOP HIGH SCHOOL PROGRAMS

Engineering Pathways (17,414)

Applied Engineering Technology (6,521)

Communications Technology (6,000)

Applied Robotics (5,193)

Technical Design (4,209)

TOP CERTIFICATIONS EARNED BY K-12 STUDENTS

Autodesk Certified User - Inventor Autodesk
Certified
Associate
(ACA) Photoshop
User AutoCAD

Adobe

Certified Solidworks Associate -Academic (CSWA-Academic)

Adobe Certified Associate (ACA) -Illustrator

ARTICULATION PATHWAY TO COLLEGE

Associate Level Certified Electronic Technician (ISCET001)

Articulates 6 credits

Electronics Engineering Technology A.S. Degree

\$641.04 in State College Tuition Savings





FINANCE



The Finance Career Cluster programs prepare students for careers in financial and investment planning, banking, insurance and business financial management. Finance career opportunities are available in every sector of the economy and require organizational, time management, customer service and communication skills.

2019-20





enrollments in Middle School programs





16,964

TOP HIGH SCHOOL PROGRAMS

Finance (9,989)

Personal & Family Finance (5,388)

*Fundamentals of Finance (483)

*Intro to Finance (457)

Global Finance (423)

TOP CERTIFICATIONS EARNED BY K-12 STUDENTS

Adobe Certified Associate Photoshop Microsoft Office **Ouickbooks** Specialist (MOS) Adobe **Certified User Bundle** Certified **Associate** InDesign Adobe Certified **Associate** illustrator

ARTICULATION PATHWAY TO COLLEGE

Articulates 6 credits

Select A.S. Degrees

\$641.04 in State College Tuition Savings

*Articulation in this career cluster varies per local institution.





HEALTH SCIENCE



The Health Science Career Cluster is divided into five pathways: Therapeutic Services, Diagnostic Services, Health Informatics, Support Services, and Biotechnology Research & Development, Hundreds of Health Science educational opportunities in a variety of professions are offered throughout the state at the secondary and postsecondary level.

2019-20



enrollments in High School programs



9,557

enrollments in Middle School programs





72,076

TOP CERTIFICATIONS EARNED BY K-12 STUDENTS

Certified Medical Certified EKG **Technician** Administrative Assistant (CMAA) (CET)

Emergency Medical Responder

Certified Nursina **Assistant** (CNA)

Certified Patient Care Tech (CPCT)

TOP HIGH SCHOOL PROGRAMS

Allied Health Assisting (18,771)

Medical Skills and Services (8,504)

Biomedical Sciences (7,536)

Nursing Assistant (Acute & Long Term Care) (6,404)

Emergency Medical Responder (5,762)

ARTICULATION PATHWAY TO COLLEGE

Licensed Practical Nurse or Licensed Practical Nurse (NCSBN002)

Articulates 10 credits

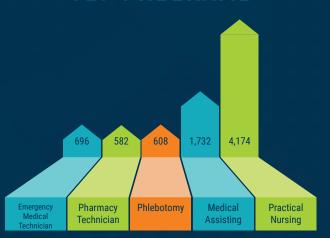
Nursing R.N. (Associate Degree)

\$1,068.40 in State College Tuition Savings

12,210 DISTRICT POSTSECONDARY PROGRAMS



TOP PROGRAMS



TOP CERTIFICATIONS EARNED BY DISTRICT POSTSECONDARY STUDENTS







EMPLOYMENT OUTLOOK

HIGH GROWTH
2.2%

Growth Rate

Dental Assistants

#IGH WAGE \$25.55 per hour Mean Wage

Radiologic Technologist

ANNUAL OPENINGS

4,488

Annual Openings

Licensed Practical Nurse (LPN)





HOSPITALITY & TOURISM



The Hospitality & Tourism Career Cluster programs offer students educational opportunities, training services, and related learning support with an emphasis on improving education services. The pathways in this cluster include restaurant and food/beverage services; lodging; travel, tourism & recreation; and amusements & attraction.

2019-20



enrollments in High School programs



enrollments in Middle School programs





109,624

TOP HIGH SCHOOL PROGRAMS

Culinary Art (54,626)

Principles of Food (7,989)

Nutrition and Wellness (6,992)

Hospitality and Tourism Management (4,662)

Hospitality and Tourism (2,242)

TOP CERTIFICATIONS EARNED BY K-12 STUDENTS

Certified Food Protection Manager (ServSafe) Certified Food Safety Manager

National ProStart Certificate of Achievement

Certified Front Desk Supervisor Microsoft Office Specialist (MOS) Bundle Certification (3 of 8)

ARTICULATION PATHWAY TO COLLEGE

Certified Culinarian (ACFED002)

Articulates 3 credits

Culinary Management A.S. Degree

\$320.52 in State College Tuition Savings

2,877DISTRICT
POSTSECONDARY
ENROLLMENTS

23 DISTRICTS



TOP PROGRAMS

Commercial Foods & Culinary Arts (1,627)

Fundamental Foodservice Skills (568)

Environmental Services (397)

Baking & Pastry Arts (129)

Lodging Operations (61)

EMPLOYMENT OUTLOOK

HIGH GROWTH

1.65%

Growth Rate

First Line Supervisors of Housekeeping and Janitorial Workers HIGH WAGE \$31.92

per hour Mean Wage

Food Service Managers

ANNUAL OPENINGS 1.862

Annual Openings

Food Service Managers





HUMAN SERVICES



The Human Services career cluster is divided into three pathways: counseling and mental health services; family and community services; and consumer services. Hundreds of human services programs prepare high school and postsecondary students for rewarding careers in this diverse cluster.

2019-20



enrollments in High School programs



+ 12,235

enrollments in Middle School programs



= 1,000

29,155

TOP HIGH SCHOOL PROGRAMS

Cosmetology (3,293)

Barbering (863)

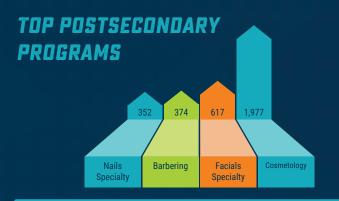
Nails Specialty (531)

Facials Specialty (289)

Dry Cleaning and Laundry (136)

OISTRICT 3,341 POSTSECONDARY ENROLLMENTS





ARTICULATION PATHWAY TO COLLEGE

Facials Specialty & Nails Specialty

225 Hours in Postsecondary Credits

Cosmetology Career Certificate

\$524.25 in State Clock Hour Tuition Savings





INFORMATION TECHNOLOGY



Information technology (IT) is the study of design, development, implementation, support or management of computer-based information systems, particularly software applications and computer hardware. Information technology deals with the use of computers and computer software to convert, store, protect, process, transmit and securely retrieve information.

2019-20



enrollments in High School programs



+ 44,753

enrollments in Middle School programs



= 10,000

122,392

TOP CERTIFICATIONS EARNED BY K-12 STUDENTS

Microsoft Office Specialist (MOS) Bundle Certified
Internet Web
(CIW)
Internet
Business
Associate

Certified Internet Web (CIW) Site Development Associate Adobe Certified Associate (ACA) Dreamweaver

Adobe Certified Associate (ACA) Photoshop

TOP HIGH SCHOOL PROGRAMS

Applied Information Technology (19,715)

Web Development (16,036)

Game/Simulation/Animation Visual Design (8,145)

Digital Media Technology (7,877)

Computer Science Principles (3,956)

ARTICULATION PATHWAY TO COLLEGE

Certified Internet Web (CIW) Advanced HTML5 & CSS3 Specialist (PROSO027)

Articulates 3 credits

Computer Information Technology A.S. Degree

\$320.52 in State College Tuition Savings

3,661DISTRICT POSTSECONDARY
PROGRAMS



25 districts

TOP PROGRAMS



TOP CERTIFICATIONS EARNED BY DISTRICT POSTSECONDARY STUDENTS







EMPLOYMENT OUTLOOK

HIGH GROWTH
3.31%

Growth Rate

Software Developers, Applications

#IGH WAGE \$39.70 per hour Mean Wage

Computer Network Architects

ANNUAL OPENINGS
3,903

Annual Openings

Software Developers, Applications





LAW, PUBLIC SAFETY, & SECURITY



The Law, Public Safety and Security Career Cluster is divided into five pathways: corrections; emergency and fire management; law enforcement; legal; and security protection. Students in these programs are preparing to plan, manage and provide legal, public safety, protective services and homeland security, including professional and technical support services.

2019-20

18,758

enrollments in High School programs



+ 1,991

enrollments in Middle School programs





20,749

TOP HIGH SCHOOL PROGRAMS

Criminal Justice Operations (16,880)

Introduction to Fire Fighting (1,397)

Public Safety Telecommunication (232)

Private Security Officer (79)

TOP CERTIFICATIONS EARNED BY K-12 STUDENTS

911 Public Safety
Telecommunicator

Emergency
Medical
Responder

Accredited
Legal
Professional
(ALP)

Adobe
Certified
Associate
(ACA)
Photoshop

ARTICULATION PATHWAY TO COLLEGE

Criminal Justice Operations High School Program

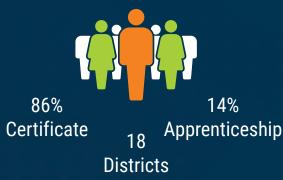
Articulates 3 credits

Criminal Justice Technology A.S. Degree

\$320.52 in State College Tuition Savings

*Articulation in this career cluster varies per local institution.

2,651 DISTRICT POSTSECONDARY PROGRAMS





TOP CERTIFICATIONS EARNED BY DISTRICT POSTSECONDARY STUDENTS







EMPLOYMENT OUTLOOK

HIGH GROWTH
1.35%

Growth Rate

Police, Fire Fighter and Ambulance Dispatchers HIGH WAGE **\$25.08**

per hour Mean Wage

Fire Fighters

ANNUAL OPENINGS 3,276

Annual Openings

Police and Sheriff's Patrol Officers





MANUFACTURING



The Manufacturing Career Cluster incorporates six pathways: production; manufacturing production process development; maintenance, installation & repair; quality assurance; logistics & inventory control, and health, safety & environmental assurance. Students prepare for careers that require planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities.

2019-20



enrollments in High School programs



+ 1,084

enrollments in Middle School programs





7,478

TOP HIGH SCHOOL PROGRAMS

Welding Technology Fundamentals (2,013)

Industry Biotechnology (1,619)

Advanced Manufacturing Technology (1,485)

Machining Technology (356)

Applied Welding Technology (266)

TOP CERTIFICATIONS EARNED BY K-12 STUDENTS

Certified Welder

NCCER Welding - Level I (Secondary)

NIMS Machining Level I - Manual Milling Skills I

ARTICULATION PATHWAY TO COLLEGE

MSSC Certified Production Technician (CPT) (MSSCN001)

Articulates9 credits

Manufacturing Technology A.S. Degree

\$961.56 in State College Tuition Savings

3,258
DISTRICT POSTSECONDARY
PROGRAMS

82%
certificate

18%
Apprenticeship



TOP CERTIFICATIONS EARNED BY DISTRICT POSTSECONDARY STUDENTS







EMPLOYMENT OUTLOOK

HIGH GROWTH
1.41%

Growth Rate

Welders, Cutters, Solderers & Brazers HIGH WAGE **\$23.30**

per hour Mean Wage

Industrial Machinery Mechanics ANNUAL OPENINGS

1.812

Annual Openings

Welders, Cutters, Solders & Brazers





MARKETING, SALES & SERVICE

The Marketing, Sales and Service Career Cluster consists of five pathways: marketing management; professional sales; merchandising; marketing communications and marketing research. Students in high school and postsecondary programs are preparing for careers in planning, managing and performing marketing activities to reach organizational objectives. Some examples of careers include customer service representatives, store managers and public relations managers.

2019-20



enrollments in High School programs



+ 1,624

enrollments in Middle School programs





26,633

TOP HIGH SCHOOL PROGRAMS

Marketing, Management & Entrepreneurial Principles (6,118)

Customer Service Representative (5,603)

Entrepreneurship (5,209)

Sports, Recreation & Entertainment Marketing (4,180)

Fashion Marketing (988)

TOP CERTIFICATIONS EARNED BY K-12 STUDENTS

Microsoft Office Specialist (MOS) Bundle Certified Internet Web (CIW) Internet Business Adobe Certified Associate (ACA) -InDesign

Quickbooks Certified User

Adobe Certified Associate (ACA) -Photoshop

ARTICULATION PATHWAY TI COLLEGE

Entrepreneurship Program

Articulates 3 credits

Marketing Management A.S. Degree

\$320.52 in State College Tuition Savings

*Articulation in this career cluster varies per local institution.



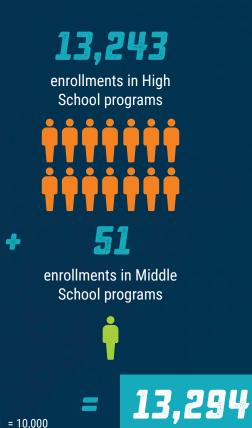


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TRANSPORTATION, DISTRIBUTION & LOGISTICS

The Marketing, Sales and Service Career Cluster consists of five pathways: marketing management; professional sales; merchandising; marketing communications and marketing research. Students in high school and postsecondary programs are preparing for careers in planning, managing and performing marketing activities to reach organizational objectives. Some examples of careers include customer service representatives, store managers and public relations managers.

2019-20



TOP CERTIFICATIONS EARNED BY K-12 STUDENTS

ASE Entry Level-Auto: Brakes (BR) ASE Entry Level-Auto: Suspension and Steering (SS)

Florida Automobile Dealers Association (FADA) Certificate

ASE Entry Level-Auto: Engine Repair (ER) ASE Entry Level-Auto: Electrical/ Electronic Systems (A6)

TOP HIGH SCHOOL PROGRAMS

Automotive Maintenance & Light Repair (7,717)

Global Logistics& Supply Chain Technology (1,777)

Automotive Collision Technology (606)

Outboard Marine Service Technology (564)

Automotive Collision Repair & Refinishing (501)

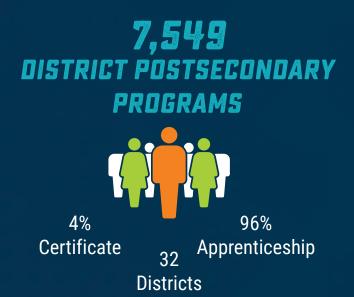
ARTICULATION PATHWAY TO COLLEGE

ASE Auto Maintenance and Light Repair (G1) (NIASE076)

Articulates3 credits

Automotive Service Technology A.S. Degree

\$320.52 in State College Tuition Savings





TOP CERTIFICATIONS EARNED BY DISTRICT POSTSECONDARY STUDENTS







EMPLOYMENT OUTLOOK

HIGH GROWTH
1.56%

Growth Rate

Operating Engineers/Construction Equipment Operators HIGH WAGE **\$26.95**

per hour Mean Wage

Aircraft Mechanics & Service Technicians

ANNUAL OPENINGS 2,454

Annual Openings

Operating Engineers/
Construction Equipment Operators



