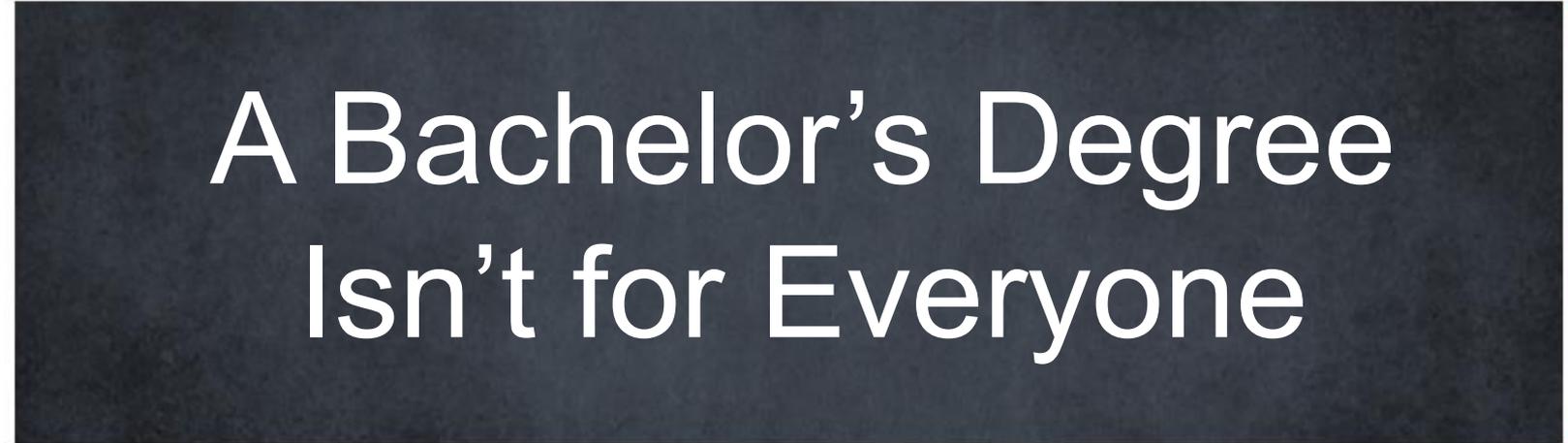


Career & Education Pathways 



A Bachelor's Degree Isn't for Everyone

High Paying Job Opportunities with Significant Growth

With the rising cost of a 4-year degree, more people are asking: is a bachelor's degree really worth it? The short answer is **yes**. Bureau of Labor Statistics data shows that **most** high-paying jobs require at least a bachelor's degree for entry.

But there is a growing recognition that what workers really need are the **right skills** and **credentials** to fill specific jobs. To that end, more employers are creating ***apprenticeship programs*** to train employees on the job, and more workers are turning to community colleges for **certificate programs** or **associate degrees** required for certain in-demand fields.

So what are these jobs? A number of them are in growing **STEM fields** and **skilled labor positions**.



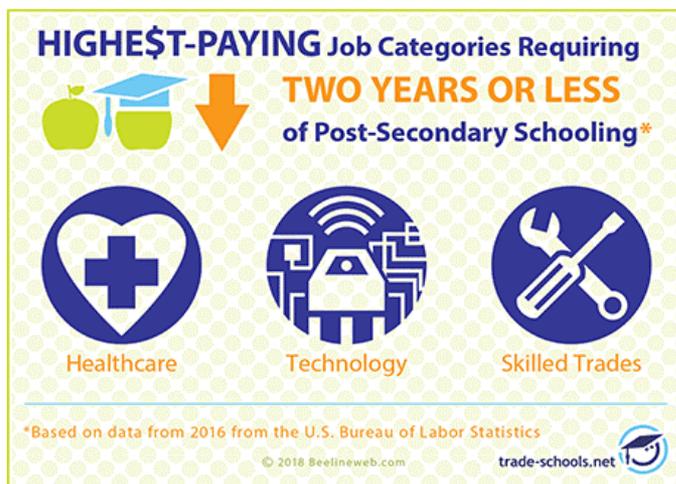
Powerful Statistics and Opportunities

❖ Overall Job Market Statistics:

- There will be **55 million** job openings in the economy through 2020:
- 24 million openings from newly created jobs
- 31 million openings due to baby boomer retirements
- Job openings in healthcare, community services, and STEM will grow the fastest among occupational clusters.

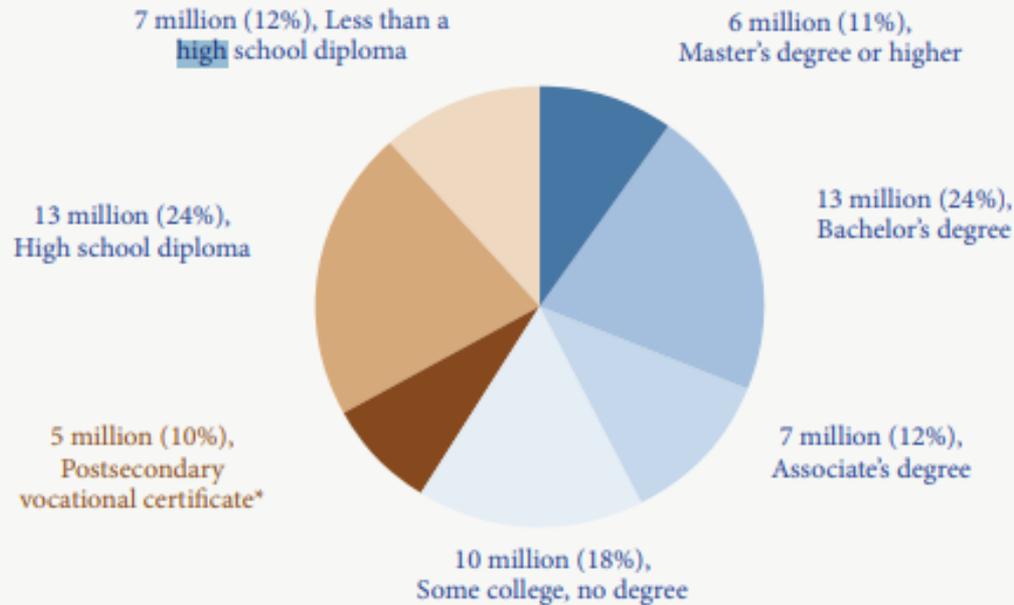
❖ Job Percentages by Education Level:

- **35 percent** of the job openings will require at least a bachelor's degree
- **30 percent** of the job openings will require some college or an associate's degree
- **36 percent** of the job openings will not require education beyond high school.
- **66%** of jobs will **not** require a 4 year degree



Job Openings

Of the 55 million job openings between 2010 and 2020:



42 Million jobs will not require a 4-year degree or Master's degree

Career Opportunities and Incomes

Employment in each of the careers below is projected to **increase at a rate that's above the average of seven percent for all occupations between 2016 and 2026**. Salaries are based on estimates from May 2017.

Dental Hygienist

- Median pay—\$74,070
- Top pay—\$101,330 or more
- Job growth—20 percent

Respiratory Therapist

- Median pay—\$59,710
- Top pay—\$83,030 or more
- Job growth—23 percent

Diagnostic Medical Sonographer

- Median pay—\$71,410
- Top pay—\$99,840 or more
- Job growth—23 percent

Registered Nurse

- Median pay—\$70,000
- Top pay—\$104,100 or more
- Job growth—15 percent

Network System Administrator

- Median pay—\$81,100
- Top pay—\$130,200 or more

Computer Programmer

- Median pay—\$82,240
- Top pay—\$132,530 or more

Web Developer

- Median pay—\$67,990
- Top pay—\$122,320 or more
- Job growth—13 percent

Multimedia Artist or Animator

- Median pay—\$70,530
- Top pay—\$123,060 or more

Career Opportunities and Incomes

Aircraft Mechanic –

- FAA-approved training from an aviation school.
- Median pay—\$61,020
- Top pay—\$92,080 or more

Mechanical Engineering Technician

- Associate's Degree
- Median pay—\$55,360
- Top pay—\$85,230 or more

Diesel Mechanic

- Diesel and Industrial Technology Program at a CTE
- Median pay—\$46,360
- Top pay—\$69,870 or more

NASCAR Technician

- Median pay—\$55,000
- Top pay—\$100,000 or more
- Crewchiefs often earn over \$1 million

Commercial Pilot (Non-Airline)

- Median pay—\$78,740
- Top pay—\$152,180 or more

Commercial Diver

- Median pay—\$47,210
- Top pay—\$96,850 or more
- Job growth—11 percent

Civil Engineering Technician

- Median pay—\$51,620
- Top pay—\$78,660 or more

Architectural Drafter

- CAD classes and training program leading to Architect Registration Examination (ARE)
- Median pay—\$52,870
- Top pay—\$79,790 or more

Career Clusters

<https://careertech.org/career-clusters>



Agriculture & Natural Resources

A highly technical, ever-changing sector of the global economy upon which everyone is dependent.

[Learn More](#)



Architecture and Construction

Prepare students for careers in design/pre-construction, construction and maintenance/operations.

[Learn More](#)



Business, Management and Administration

The Business Management & Administration Career Cluster is divided into six pathways.

[Learn More](#)



Education

Educational opportunities and training services with an emphasis on improving public education services.

[Learn More](#)



Energy

Careers training related to the generation, transmission and distribution of various types of energy.

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Engineering

Engineering and technology education opportunities in a variety of different industries.

[Learn More](#)



Career Clusters

<https://careertech.org/career-clusters>



Finance

Careers in Securities & Investments; Business Finance; Insurance; and Banking Services.

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Government & Public Administration

There are 7 career categories in government and public administration.

[Learn More](#)



Health Science

The Health Science Career Cluster is divided into five pathways from therapeutic to biotech.

[Learn More](#)



Hospitality and Tourism

The Hospitality & Tourism Career Cluster is divided into four pathways from lodging to tourism.

[Learn More](#)



Human Services

Counseling and Mental Health Services; Family and Community Services; and Consumer Services.

[Learn More](#)



Information Technology

Network Systems; Info. Support & Services; Programming & Software Dev.; and Interactive Media.

[Learn More](#)



Career Clusters

<https://careertech.org/career-clusters>



Law, Public Safety & Security

The Law, Public Safety & Security Career Cluster is divided into five pathways.

[Learn More](#)



Manufacturing

The Manufacturing Career Cluster incorporates six pathways from Production to Environmental Assurance.

[Learn More](#)



Marketing, Sales & Service

Encompasses advertising and marketing, buying and merchandising, digital marketing and more.

[Learn More](#)



Transportation, Distribution & Logistics

Planning, mgmt., and movement of people, materials and goods by road, pipeline, air, rail and water.

[Learn More](#)



Additional CTE Programs

Instructional Support Services provide services and instruction for special populations students.

[Learn More](#)



Students Should Begin Exploring Careers Early

Public school students are beginning to explore careers in middle school which help them to determine their strengths and interests so they are on a pathway to success. Courses are designed to give students a knowledge of possible careers for their future. Home educators can do this too through field trips, apprenticeships, volunteering, competitions and research.

Discovering your child's interest, skills, aptitudes, preferences and personality type in high school can help direct his/her career pathway.

Some Helpful Resources:

Florida Choices

Florida Department of Education

<https://www.flchoices.org/>

O-Net OnLine

Partner of the americanjobcenter© network

<http://www.onetonline.org/>

Bureau of Labor Statistics

Occupational Outlook Handbook

<http://www.bls.gov/ooh/>

CareerSource Florida

A Florida public/private partnership

<http://careersourceflorida.com/>

Career Clusters Student Interest Survey

A thumbnail image of the Career Clusters Student Interest Survey form. The form is titled "Career Clusters Student Interest Survey" and contains several sections with checkboxes and text boxes for students to indicate their interest in various career clusters.

The Student Interest Survey for Career Clusters® is a career guidance tool that allows students to respond to questions and identify the top three Career Clusters of interest based on their responses. This pencil/paper survey takes about fifteen minutes to complete and can be used in the classroom or for presentations with audiences who have an interest in career exploration. A Spanish version of the survey can be downloaded [here](#). The Student Interest Survey for Career Clusters may be used for educational purposes only.

TOPIC(S): Career Advisement

RESOURCE TYPE(S): Guide/Tool

STATE(S): National

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EDUCATION LEVEL(S): K-12



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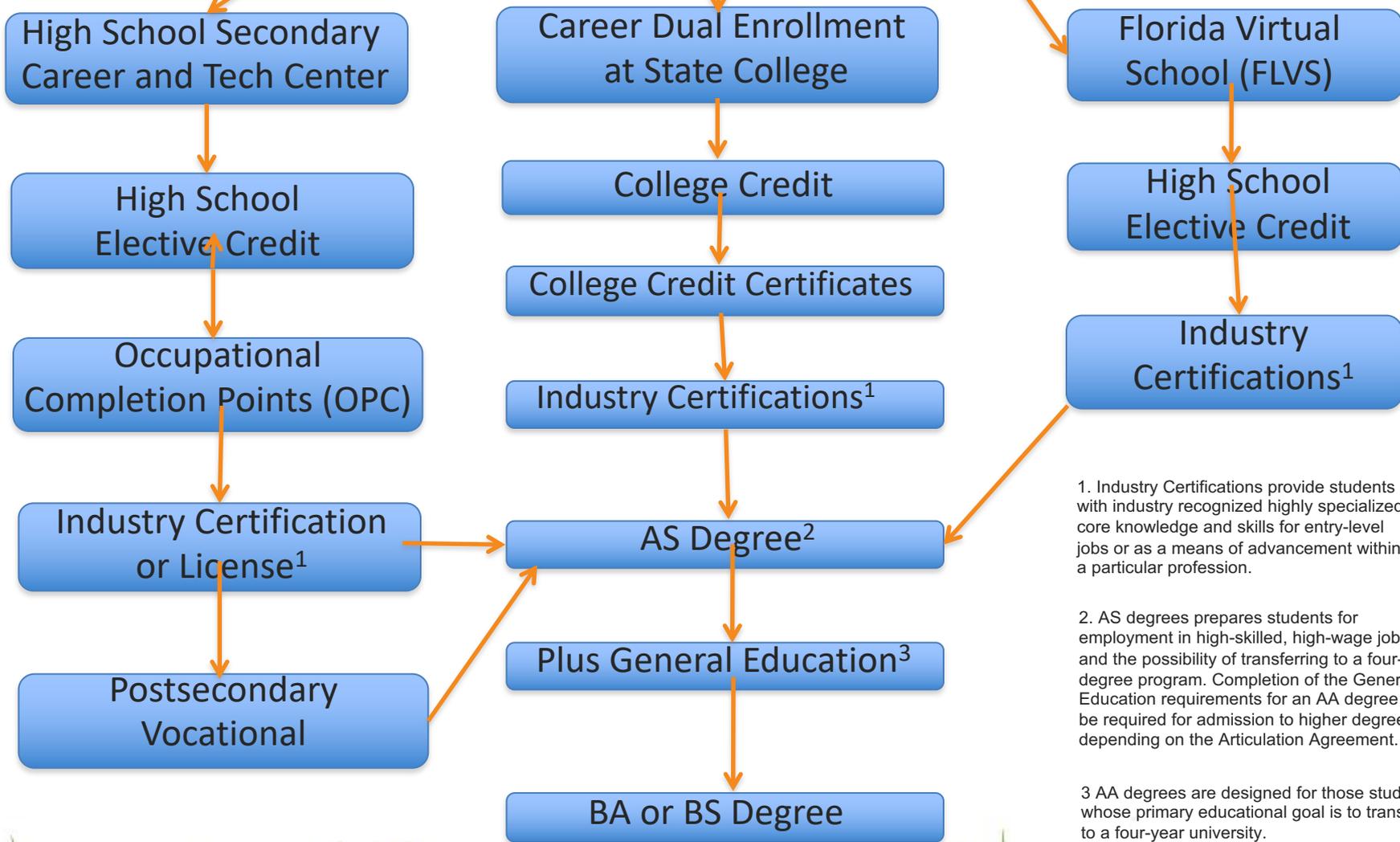
SHARE



Check out Career Cluster Student Interest Survey in the Learning that Works Resource Center #CTEWorks.

<https://careertech.org/resource/career-clusters-student-interest-survey>

Career Pathway Chart



1. Industry Certifications provide students with industry recognized highly specialized core knowledge and skills for entry-level jobs or as a means of advancement within a particular profession.

2. AS degrees prepares students for employment in high-skilled, high-wage jobs and the possibility of transferring to a four-year degree program. Completion of the General Education requirements for an AA degree may be required for admission to higher degree depending on the Articulation Agreement.

3 AA degrees are designed for those students whose primary educational goal is to transfer to a four-year university.



High School (Secondary) Career Opportunities through Local School Districts

Secondary Career Programs

- Students can start down a career pathway during high school through a public school, FLVS or in a state college.
- FLVS courses that lead to industry certifications in computer technology or IT. Students will earn elective high school credits and be prepared to take an industry certification exam. Some of these same courses are offered at state colleges or career and technical centers. Industry certifications can be articulated to some state colleges for credit.
- Career and Technical Programs for public school students are operated by the school district and are offered in high schools or at a Career and Technical Center or at both, depending on the school district.
- Some school districts allow part-time enrollment in CTE programs on a part-time basis where seats are available. At Career and Technical Centers the instruction is in the morning so that students can work in the afternoon.
- Career programs may also be offered in career academies or magnet programs, which are full-time programs. Students must apply and are chosen by lottery to fill the available seats.
- Career and Technical Centers offer secondary programs and post-secondary programs. High school students can only participate in the secondary programs offered.
- Designed to be the first step on a career pathway.

Finding Secondary Career & Technical Education

- Every school district is required to offer high school students some career and technical education (CTE) options.
- Each county CTE is different based on the industry demand for trained employees in their district.
- Smaller counties will generally have fewer job opportunities than larger districts.
- You can generally find this information on the school district website.
- You can find the CTE programs in your county by googling words such as: career and technical education, career pathways, and vocational education.
- You can also call the school board or the superintendent of your county and ask them for the contact person for career education.



Postsecondary Education Opportunities

Postsecondary Career Pathways

- Home education students may begin on a career pathway through:
 - Dual enrollment or early admission at a state college
 - Career Dual Enrollment or early admission at a state college
 - Career and Technical Centers –Secondary Education programs
- Students earn college credits in courses taken through career programs at state colleges.
- Some programs allow students to earn an Applied Technology Diploma (ATD), College Credit Certificates (CCC) which apply to an AS or AAS degree in the career pathway. These programs give students credentials in the industry and allow them to earn while they continue learning.
- Some career programs have apprenticeship opportunities in the industry which may lead to employment.
- Students are prepared to take an industry certification or licensing exam following successful completion of their coursework.

Broward

- [Atlantic Technical College](#), 4700 Coconut Creek Parkway, Coconut Creek, Florida 33066, 754-321-5100
 - [Driving Directions](#)
- [Sheridan Technical College](#), 5400 Sheridan Street, Hollywood, Florida 33021, 754-321-5400
 - [Driving Directions](#)
- [William T. McFatter Technical College](#), 6500 Nova Drive, Davie, Florida 33317, 754-321-5700
 - [Driving Directions](#)

Miami-Dade

- [D.A. Dorsey Technical College](#), 7100 NW 17th Ave., Miami, FL 33147, 305-693-2490
 - [Driving Directions](#)
- [George T. Baker Aviation Technical College](#), 3275 N.W. 42nd Avenue, Miami, FL 33142, 305-871-3143
 - [Driving Directions](#)
- [Lindsey Hopkins Technical College](#), 750 NW 20th Street, Miami, FL 33127, 305-324-6070
 - [Driving Directions](#)
- [Miami Lakes Educational Center and Technical College](#), 5780 NW 158th Street, Miami Lakes, FL 33014, 305-557-1100
 - [Driving Directions](#)
- [Robert Morgan Educational Center and Technical College](#), 18180 S.W. 122 Avenue, Miami, FL 33177, 305-253-9920
 - [Driving Directions](#)
- [South Dade Technical College](#), 109 NE 8th Street, Homestead, FL 33030, 305-248-5723
 - [Driving Directions](#)
- [The English Center](#), 3501 SW 28th Street, Miami, FL 33133, 305-445-7731
 - [Driving Directions](#)



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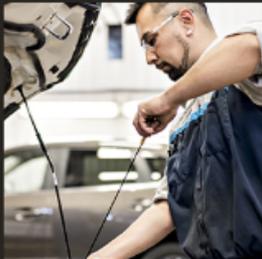


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Questions and Answers

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