

TRANSPORTATION, DISTRIBUTION & LOGISTICS

ALABAMA SUCCESS EDUCATION & CAREER PLANNER

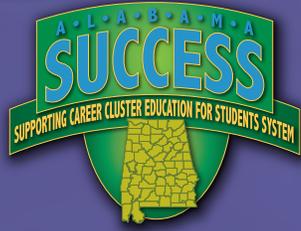
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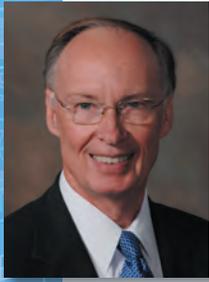
Get On the Fast Track

Your guide to careers in **TRANSPORTATION, DISTRIBUTION & LOGISTICS**

Great Career Ideas • Creating Your Plan • College Resources



A message from . . .



Robert Bentley,
Governor of Alabama

The investments we make in our students today will help shape their futures for years to come. Our students are destined to become high-performing professionals in all sectors of the workforce.

Alabama SUCCESS is an initiative designed to help students access valuable information about current careers, postsecondary learning, and financial literacy resources.

Our goal is to give students the opportunities they need to prepare themselves for success. We want our students to be well-equipped for top careers in Alabama's workforce - which has a growing influence on the global marketplace.

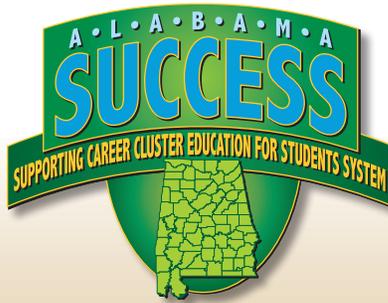
This Alabama SUCCESS guide is a great resource to assist in preparing for a bright and successful future.



Dr. Thomas R. Bice,
Alabama State
Superintendent of
Education

Alabama SUCCESS is an invaluable resource designed specifically for students. By

learning about actual career fields and the education and experience required for specific jobs, you will be better able to figure out what you want to do after high school and what you need to do to achieve your goals.



ATTENTION, PARENTS

This guide is part of a series created to help students in Alabama learn more about careers, salaries, and the steps they need to take to reach their goals. By connecting what they learn in the classroom to real jobs that interest them, Alabama students will graduate better prepared for life and work. You can help your child use this guide by:

- ◆ Talking to your child about what careers interest him or her—and why
- ◆ Sharing your work experiences—pro and con—with your child
- ◆ Asking people in your community who work in jobs that interest your child to talk about their careers or to let your child visit their workplace.





What Employers Want



**Danny Barnett, President
Human Resources Manager
Alabama State Port Authority, Mobile**

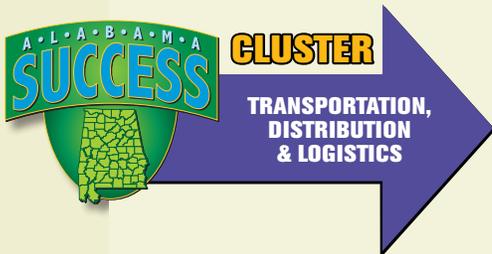
“**A**t the Alabama State Port Authority, we look for reliable people with good attendance records at work and school. We also [like to see participation in] extracurricular activities such as clubs and sports, because that shows us that we have someone who is going to be there when we need them.

Since the September 11 terrorist attacks of 2001, everyone who works in the port has had to pass a federal background check. And although not all jobs in Transportation, Distribution & Logistics are as sensitive as the ones available at the port, almost any job involving the movement of goods and materials is going to require job candidates to have a clean police and driving record.

Employers in this field are also looking for team players. In terms of education, job candidates with a strong background in mathematics tend to be more likely to succeed in this field. Math skills not only demonstrate the ability to reason, but also come in handy in many of the entry-level positions in this cluster.”

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Transportation, Distribution & Logistics

How do people and products get where they need to go?

Transportation, Distribution & Logistics professionals map out the routes; plan the schedules; and operate the cars, planes, trains, ships, buses, trucks, and other vehicles that deliver cargo to its proper destination.

This fast-moving career cluster also prepares people for a variety of jobs at warehouses and distribution centers, at seaports and airports, and in all branches of the military.

CLUSTER PROFILE



YOU DECIDE

Does the Transportation, Distribution & Logistics career cluster fit you, your talents, and your dreams? Take this quick quiz to find out.

1

Are you a NASCAR, boating, or BMX fan?

WHY IT MATTERS:

An interest in and passion for automotive and off-road sports is often a sound basis for a career in Transportation, Distribution & Logistics.

2

Are you strong and coordinated?

WHY IT MATTERS:

Some of the jobs in this cluster are physically intense and are often best performed by job candidates who possess great physical strength and coordination.

3

Do you like to travel?

WHY IT MATTERS:

Jobs in the Transportation, Distribution & Logistics cluster can take you all over the globe.

4

Do you have strong math, science, and computer skills?

WHY IT MATTERS:

Math, science, and computers have helped to paint the landscape in which the jobs in this career cluster are performed.

5

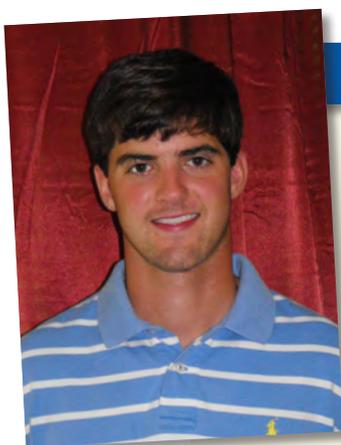
Are you good at operating tools and machinery?

WHY IT MATTERS:

It requires a precise set of skills to operate the machinery that makes the jobs in this career cluster possible.



If you answered "yes" to most of these questions, Transportation, Distribution & Logistics could be right for you.



YOUNG PROFESSIONAL PROFILE

NAME: Joseph Holland

EDUCATION: Southside High School, Gadsden; University of Alabama, Tuscaloosa—Aerospace, Working toward Bachelor of Science Degree

While earning an advanced high school diploma at Gadsden's Southside High School, Joseph Holland gained some of the most valuable educational experience of his academic career through a calculus course.

"If your high school offers calculus, and you want to go into any transportation career, then get on it," Holland says. "Everything we do is calculus based. Getting that experience in high school puts you so much further along when you get to college."

Holland, now an aerospace major at the University of Alabama, credits his calculus training at Southside High with vaulting him into a career in Transportation, Distribution & Logistics. However, he also says that it does not hurt to have some of the leading facilities in aerospace and aeronautics right in your backyard.

"Huntsville is amazingly ideal for our profession," says Holland, who interned at NASA during his junior year at Alabama. "I wouldn't trade that experience for the world."

LEARN MORE

To find out more about jobs in the Transportation, Distribution & Logistics career cluster in Alabama, visit the website of the Alabama State Port Authority, www.asdd.com



MAKE A PLAN

Sit down with your parents and counselor and create a plan.

Map out an Alabama Education Plan (sample at right) based on your interests, strengths, and possible career goals.

Your plan outlines the courses and electives you'll take in high school, plus related clubs and career preparation. Your counselor will work with you to determine the learning experiences needed for you to complete your plan, such as using distance learning or earning college credit from your local community college.

Here's a sample Alabama Education Plan for you to use as a guide.

SAMPLE* Alabama Education Plan

Name: Jordan Smith
School: Central High School
Diploma Option: Advanced Career and Technical Endorsement
Cluster: Transportation, Distribution & Logistics
Pathway: Facility and Mobile Equipment Maintenance
Career Goal: Aircraft Mechanic
Postsecondary Goal: FAA Mechanic Certification



	Math	English	Science	Social Studies	Other Optional Courses	Sampling of Career and Technical Education Courses in Pathway
9th Grade	Algebra I	English 9	Physical Science	World History 1500–Present	<ul style="list-style-type: none"> Physical Education -1 Health - 1/2 Fine Arts - 1/2 Computer Application - 1/2 	<ul style="list-style-type: none"> Transportation, Distribution & Logistics Automotive Engine Performance I & II Automotive Engine Repair Automotive Heating and Air-Conditioning Automotive Manual Drivetrain and Axles Automotive Electrical and Electronic Systems I & II Automotive Brakes Automotive Suspension and Steering Diesel Engines I, & II Diesel Drive Train Diesel Electrical and Electronics Systems I & II Diesel Brakes
10th Grade	Geometry	English 10	Biology	United States History to 1877	<ul style="list-style-type: none"> Foreign Language I** Foreign Language II** 	<ul style="list-style-type: none"> Diesel Suspension and Steering Nonstructural Analysis and Damage Repair I & II*** Structural Analysis and Damage Repair*** Mechanical and Electrical Components I & II*** Collision Repair—Metal Welding and Cutting*** Two- and Four-Stroke Engines Recreational Power Equipment Operation Advanced Power Equipment Technology Power Equipment Technology Residential and Commercial Power Equipment Safety and Health Regulations
11th Grade	Algebra II with Trigonometry	English 11	Chemistry	United States History to Present		
12th Grade	Pre-Calculus or Calculus	English 12	Physics	Government and Economics		
Community College	General Education Requirements <ul style="list-style-type: none"> English Composition I English Composition II or SPH 106 Humanities Elective Intermediate College Math 				<ul style="list-style-type: none"> Microcomputer Applications Math or Science Elective History, Social, or Behavioral Science Orientation for Career Students 	Required and CTE Courses <ul style="list-style-type: none"> Non-Structural Repair*** Non-Structural Panel Replacement*** Materials and Processes Nonmetallic Structures and Welding Aircraft Sheet Metal Structures Airframe Systems Aircraft Installation
Higher Education						Co-Curricular Experiences: TSA Extracurricular Experiences: FIRST ROBOTICS Service Learning Experiences: Assist with vision screenings for pre-schoolers on behalf of Sight Savers of America or similar organization
Education and Career Assessments: 8th Grade: Interest inventory and education plan initiated for all learners 11th Grade: College placement assessment Career Learning Experiences: Career preparation—paid and unpaid, internships, job shadowing						

ARTICULATION AGREEMENT

is a fancy term for a simple education agreement that can streamline your road to a successful career.

Statewide articulation agreements link all high schools and two-year colleges in Alabama. They provide credit at two-year colleges for coursework mastered at the high school level.

*This is a sample plan and should not be considered a definitive plan for any student interested in this career cluster.
 Alabama First Choice diploma requires 2 years of the same foreign language. *Statewide articulated course

Articulation agreements can take you down your career pathway as well. In many cases, students transferring from two-year to four-year colleges and universities can complete four-year general studies core course requirements before they transfer.



Get Career Credentials

If you're a student in a career and technical education (CTE) program, you may have the option of earning a Career Readiness Certificate along with your high school diploma. The nationally recognized certificate shows you're proficient in applied math, reading for information, and locating information—skills employers highly value. Ask your school counselor about the statewide program; if it's not in your high school now, it will be implemented soon.



CAREER IDEAS

Need-to-know facts and figures about real Alabama jobs, salaries, and education options in Transportation, Distribution & Logistics.

The 12 careers highlighted on the next page are a sampling of occupations in the **Transportation, Distribution & Logistics** cluster in Alabama. The charts include occupation name, description, plus wages for workers just starting out in the profession, average wages for those in the occupation, and the wages earned by experienced workers in the job (see “How to Read Job Charts”). The bar below the occupation’s name contains the Standard Occupational Code (SOC); use the SOC to look up more information about the career in online databases such as O*NET (see below). The bars are also color-coded to indicate the minimum level of education required for each profession.

For further information on occupations in all career clusters, go to the O*NET database at www.online.onetcenter.org.



How to Read Job Charts

- Starting Hourly Wage
- Average Hourly Wage
- Experienced Hourly Wage
- Occupation Name
- SOC Number
- Minimum Education Level (indicated by color bar)
- Occupation Description

EDUCATION LEVELS

- On-the-Job Training
- Work Experience in a Related Occupation
- Postsecondary Vocational Training
- Associate’s Degree
- Bachelor’s Degree
- Master’s Degree
- Doctoral Degree

Source: Alabama Department of Industrial Relations, Labor Market Information Division.

Check Out These Three COOL CAREERS

Avionics Technician

WHAT: Test, maintain, design, and produce aviation electronics, including missile guidance systems, jet engines, and flight control equipment.

WHO: Avionics technicians are highly skilled, detail-oriented, and curious people who constantly learn new things to stay up-to-date on the latest aviation technologies.



Freight/Cargo Inspector

WHAT: Bear responsibility for screening imports. Follow security procedures, ensure the proper storage of dangerous cargo, and check the licenses and safety equipment required for particular cargos.

WHO: Freight and cargo inspectors have been on the front lines of national defense against terrorism since the attacks of September 11, 2001.



Logistics Specialist

WHAT: Make sure a transportation or distribution operation runs smoothly and efficiently. By doing so, help the company not only save money, but also protect the environment by saving energy and reducing the operation’s overall carbon footprint.

WHO: A logistics specialist’s work requires keen organizational and managerial skills. Because technology is constantly changing the way operations run, logistics specialists must also be able to adapt quickly to new technology.





\$18.16
\$25.31
\$31.18

Aircraft Mechanic and Service Technician

SOC: 49-3011

Diagnose, adjust, repair aircraft engines.



\$28.79
\$46.95
\$59.22

Air Traffic Controller

SOC: 53-2021

Control movement in and out of commercial and military airports.



\$23.19
\$38.59
\$51.98

Logistician

SOC: 13-1081

Oversee all of a company's or organization's operational processes in order to ensure it operates efficiently.



\$10.99
\$17.47
\$27.13

Truck Driver, Heavy and Tractor-Trailer

SOC: 53-3032

Drive, load, and unload trucks and tractor-trailers used to transport products and materials.



\$24.36
\$41.99
\$57.64

Captain, Mate, and Pilot of Water Vessels

SOC: 53-5021

Command and supervise operations of ships and water vessels, such as tugboats and ferryboats.



\$16.88
\$21.53
\$29.32

Railroad Conductor and Yardmaster

SOC: 53-4031

Coordinate the activities of the crews aboard passenger and freight trains, as well as in rail yards.



\$19.00
\$24.13
\$42.30

Ship Engineer

SOC: 53-5031

Oversee the work of crews of ships, which includes maintenance of all the ship's equipment.

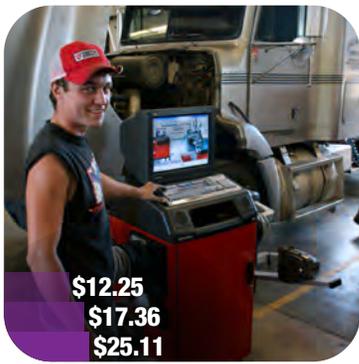


\$15.69
\$26.79
\$37.64

Aerospace Engineering and Operations Technician

SOC: 17-3021

Operate, install, calibrate, and maintain instruments and equipment to launch, track, and position air and space vehicles.



\$12.25
\$17.36
\$25.11

Bus & Truck Mechanic & Diesel Engine Specialist

SOC: 49-3031

Repair buses, trucks, and all types of diesel engines.



\$14.55
\$23.20
\$35.74

Transportation and Material-Moving Machine Operator

SOC: 53-1031

Oversee the work of the operators of transportation and material-moving machinery.



\$8.84
\$13.71
\$21.64

Electronic Equipment Installer and Repairer (Motor Vehicles)

SOC: 49-2096

Install and repair the communications, sound, and navigation equipment in motor vehicles.



\$8.30
\$15.55
\$22.43

Motorcycle Mechanic

SOC: 49-3052

Build and repair motorcycles.



Think Again

Now is the time to take a fresh look at Transportation, Distribution & Logistics careers you may not have considered before.



MYTH: Transportation, Distribution & Logistics jobs lack creativity.

FACTS: A whole world of creative job opportunities exist within the Transportation, Distribution & Logistics career cluster. Consider the public transportation arena, for example. Customers are actually buying a service, and many professionals in the transportation industry are involved in selling that service to tourists, travelers, and shippers. Students interested in marketing should not rule out the opportunities available in this field. As more of the world turns to public transportation, more transportation-related companies are going to be looking for creative individuals who can reach potential customers through marketing efforts.

Reality Check

What It Costs to Live on Your Own in Alabama

Estimated 2009–2010 monthly expenses for a 22-year-old living in Birmingham.

Note: Keep in mind that your paycheck will be reduced by about 30 percent to cover taxes, retirement, and insurance. What's left is known as your "take-home pay." Subtract 30 percent from the salaries shown on page 5 to get a more accurate take-home amount.



Cable and Internet:
\$90



Rent and utilities:
\$700–\$800

(1-bedroom)

Monthly total:
\$1,310–\$1,654

Yearly total:
\$15,742–\$19,851



Car insurance:
\$30–\$95

(6-month policy)



Cell phone:
\$70



Groceries:
\$200–\$250



Gasoline:
\$124

(1,000 miles @ \$3.10 per gallon 25 MPG)



Car payment:
\$350–\$450

(Used 2010/2011 4-door)

Sources: Rent: www.rentbits.com/rb/t/rental-rates/birmingham-al

Car: www.carsdirect.com

Cell phone: www.att.com, www.bellsouth.net, www.bycomcast.net, www.whitefence.com

Groceries: www.wkyg.com/consumer/article/alabamians_paying_more_for_groceries/23889

Cable and Internet: www.birmingham.mybriighthouse.com

Car insurance: www.progressive.com

Gas: www.gasbuddy.com



POSTSECONDARY PROGRAMS

Check It OUT

Most Alabama schools offer these student organizations related to the **Transportation, Distribution & Logistics** career cluster:



SkillsUSA ▪ www.skillsusa.org
SkillsUSA is a partnership of students, teachers, and industry working to ensure American has a skilled workforce. Programs include student competitions and employer-driven training in all career and technical education areas.



Technology Student Association (TSA) ▪ www.tsaweb.org
TSA prepares students to meet the challenges of a high-tech world by promoting technological literacy, leadership, and problem-solving skills. Members have opportunities to develop and showcase their technology skills through individual and team competitions.



Future Business Leaders of America ▪ www.fbla-pbl.org
FBLA is a great opportunity for Alabama students to learn about various business relationships in the state. The organization gives students in this cluster a first glance at basic business operations, as well as a great opportunity to network with other students and professionals in the field.

Take It to the Next Level

In Alabama, the learning doesn't stop with high school graduation. Here is a list of public postsecondary (after high school) institutions that may offer programs related to this cluster. For Web links to these two- and four-year institutions, visit www.ache.alabama.gov/Colleges&Universities/Directory.htm.



Two-Year Institutions Offering Certificates or Associate's Degrees

- Alabama Southern Community College, Monroeville
- Beville State Community College, Sumiton
- Bishop State Community College, Mobile
- Calhoun Community College, Decatur
- Central Alabama Community College, Alexander City
- Chattahoochee Valley Community College, Phenix City
- Enterprise-Ozark Community College, Enterprise
- Faulkner State Community College, Bay Minette
- Gadsden State Community College, Gadsden
- H. Councill Trenholm State Technical College, Montgomery
- Jefferson Davis Community College, Brewton
- Jefferson State Community College, Birmingham
- J.F. Drake State Community College, Huntsville
- J.F. Ingram State Technical College, Deatsville
- Lawson State Community College, Birmingham
- Lurleen B. Wallace Community College, Andalusia
- Marion Military Institute, Marion
- Northeast Alabama Community College, Rainsville
- Northwest-Shoals Community College, Muscle Shoals
- Reid State Technical College, Evergreen
- Shelton State Community College, Tuscaloosa
- Snead State Community College, Boaz
- Southern Union State Community College, Wadley
- Wallace Community College (Selma), Selma
- Wallace State Community College (Dothan), Dothan
- Wallace State Community College (Hanceville), Hanceville

Four-Year Institutions Offering Bachelor's, Master's, Doctoral, or First Professional Degrees

- Alabama A&M University, Normal
- Alabama State University, Montgomery
- Athens State University, Athens
- Auburn University, Auburn
- Auburn University at Montgomery, Montgomery
- Jacksonville State University, Jacksonville
- Troy University, Troy
- Troy University Dothan, Dothan
- Troy University (Montgomery), Montgomery
- University of Alabama at Birmingham, Birmingham
- University of Alabama in Huntsville, Huntsville
- The University of Alabama, Tuscaloosa
- University of Montevallo, Montevallo
- University of North Alabama, Florence
- University of South Alabama, Mobile
- University of West Alabama, Livingston

Certifications

While attending high school and postsecondary institutions, all Alabama students should consider getting certifications related to their career cluster of interest. These certifications can improve a student's skill set, as well as increase the student's overall chance of gaining employment in the field.

GETTING READY



GRADE 9 FRESHMAN YEAR

- ◆ Research your career options based on your interests, talents, and goals.
- ◆ Choose a career cluster.
- ◆ Create an Alabama Education Plan (see page 3).
- ◆ Do your best work in all your classes. Course selection and grades really do count when you are applying to colleges and training programs.
- ◆ Keep a folder or portfolio of your activities, awards, accomplishments, and work experience, and add to it during your high school career.

GRADE 10 SOPHOMORE YEAR

- ◆ Continue building the strongest possible academic record.
- ◆ Consider taking the PLAN (pre-ACT) if you plan to apply to a two-year college or university in the future.
- ◆ Consider taking the PSAT (preliminary SAT/National Merit Scholarship Test) if you plan to apply to a two-year college or university in the future.
- ◆ Use the information in your portfolio to create a resume.
- ◆ Apply for summer jobs, internships, or volunteer activities related to your career cluster.

GRADE 11 JUNIOR YEAR

- ◆ Take the PSAT/NMSQT.
- ◆ Use resources available at your school (books, online tools, college fairs, etc.) to research postsecondary education options related to your career goals.
- ◆ Register to take either the ACT or the SAT I and SAT II Subject Tests. There are testing dates every month from January through June. Registration deadlines are approximately four weeks before each testing date.
- ◆ Apply for summer jobs, internships, and volunteer activities related to your career goals.
- ◆ Use www.fafsa4caster.ed.gov to determine your financial aid eligibility.

GRADE 12 SENIOR YEAR

- ◆ In the fall, apply to postsecondary programs and retake any standardized college admissions tests if you would like to improve your score.
- ◆ Beginning in November, complete college financial aid forms. Deadlines and required data differ from school to school, so read the instructions carefully.
- ◆ In the spring, choose your postsecondary program on the basis of where you have been accepted, costs, etc.
- ◆ Continue doing your best work. Most schools require a final transcript before making your acceptance official.



COLLEGE PREP: Getting Accepted

The college admissions process can be stressful and a bit scary, especially if you are the first in your family to apply. Give yourself the best shot at getting into a college program that matches your goals by following these five steps:

1. Make the Grade

Your grade point average really does count, so do your best work on every assignment, pay attention in class, and participate in group discussions.

2. Get Involved

Build teamwork and leadership skills by joining clubs and teams at your school, volunteering for service projects, and participating in church or community activities.

3. Make a List

Before you can apply to college, you have to figure out what you would like to study and what matters most to you (like location, size, or religious affiliation). Use the college guides in your local library, school library, or counselor's office to start making a list of colleges that interest you. Use online tools like www.collegeboard.com and www.accs.cc to learn more about each school and take virtual campus tours.

4. Plan for Tests

Most colleges want scores from the ACT, SAT, or SAT II tests. See what tests the schools on your list require, sign up to take them in time to include the scores on your application, and then practice the free SAT sample questions at www.collegeboard.com or sample ACT tests at www.actstudent.org.

5. Be Neat and Complete

Before you send in a college application, double-check your spelling, make sure nothing is missing, and save a copy just in case you have to submit it again.

PAYING YOUR WAY: Financial Aid

Every Alabama student can afford to go to college. It just takes a little planning. Put your college dreams within financial reach by taking these five steps:

1. Consider a Community College

Alabama's public and private two-year colleges offer an affordable way to earn an associate's degree or complete enough credits to transfer into a four-year school as a junior. Learn more at www.accs.cc.

2. Weigh Your Options

Attending one of Alabama's four-year public or private schools cuts travel costs and other living expenses, as compared to attending schools out of state. In addition, public schools offer reduced in-state tuition, and, if there's a college nearby, you can save even more by living at home.

3. Rise to the Top

Apply to a couple of schools at which your grades and accomplishments put you near the top of the typical applicant pool. Since your application will stand out, you'll be more likely to qualify for scholarships and other merit aid.

4. Do a Little Digging

More than one million local, national, and college-specific scholarships are available each year. Ask your school librarian and counselor for help finding printed scholarship resource guides. To find and apply for scholarships online, sign up for the free college scholarship search source FastWeb at www.fastweb.com.

5. Apply for Aid

Fill out the Free Application for Federal Student Aid (FAFSA) as soon as possible after January 1 of the year you'll be starting college. FAFSA forms and instruction booklets are available in your guidance counselor's office and online at www.fafsa.gov. Some schools also require the CSS/Financial Aid Profile form (profileonline.collegeboard.com), and others have their own financial aid forms. Carefully read each college's application to figure out what forms you need to submit and when.

Tool Box



Resource Shelf

Use these websites and other resources available from your school counselor to learn more about careers, career clusters, and educational and job opportunities in high school and beyond.

ACCESS • www.accessdl.state.al.us

ACCESS (Alabama Connecting Classrooms, Educators, and Students Statewide) Distance Learning provides opportunities and options for Alabama public high school students to engage in advanced placement (AP), elective, and other courses to which they may not otherwise have access.

Alabama Career Information Network

www.alcareerinfo.org

This new Web portal increases Alabama students' and families' access to valuable career exploration activities and college financial aid information.

Alabama Commission on Higher Education

www.ache.alabama.gov

Click on "Colleges & Universities" within this website for a list of four-year institutions in Alabama.

The Alabama Community College System • www.accs.cc

Learn all about the public and private two-year colleges in Alabama. Connect directly to each school's website to see the courses, majors, degrees, and scholarships it offers to Alabama students.

Alabama Tech Prep • www.altechprep.org

This booklet is sponsored by Alabama Tech Prep. The goal of Tech Prep is to create a smooth transition from high school to college and to a career.

Alabama Virtual Library • www.avl.lib.al.us

This Alabama Legislature-funded site provides all students, teachers, and citizens of the State of Alabama with online access to essential library and information resources.

America's Career InfoNet • www.acinet.org/acinet

Use this site to search for occupational information, industry information, and state-specific labor market information.

Career Voyages • www.careervoyages.gov

This career planning resource helps students, parents, career changers, and career advisors.

O*NET (Occupational Information Network)

www.online.onetcenter.org

O*NET provides full information on occupations, including state-by-state salary data, employment prospects, and skill matching for students.

U.S. Department of Labor Occupational Outlook Handbook

www.bls.gov/oco

A valuable resource for both counselors and students, this federal website offers updated information on careers, job responsibilities and working conditions, salaries, and what jobs will be available in the future.

Articulation agreements: formal agreements between or among educational organizations (high schools, community colleges, and universities) that allow students to receive college credit for courses taken in high school.

Associate's degree: a two-year degree awarded by a community college.

Bachelor's degree: a four-year degree awarded by a college or university.

Career and technical student organizations (CTSOs): co-curricular organizations for students that offer activities and competitions related to particular careers.

Career Clusters: identifies pathways from high schools to two- and four-year colleges, technical schools, graduate schools, apprenticeship programs, and workplace so that learners can recognize the relationship between what they learn in school and what they can do in the future.

Career Pathways: pathways are sub-groupings of occupations/career specialties. Occupations/Career specialties are grouped into Pathways based on the fact that they require a set of common knowledge and skills for career success.

Doctoral degree: a degree awarded by universities for study beyond a master's degree. May also be called a Ph.D. or a first professional degree.

Dual enrollment: a program between Alabama public colleges and universities and local boards of education that allows high school students to enroll in certain approved college-level courses to receive both high school and college credit.

ECEP (Early College Enrollment Program): a program that allows juniors and seniors to have full-time enrollment at an Alabama public college or university while still graduating with their class and staying involved with high school activities.

Extended learning experiences: participation in career and technical student organizations, co-curricular activities, job shadowing, internships, or community service.

Internship: an extended learning experience that gives students an opportunity to work temporarily at an entry-level job in a career that interests them.

Job shadowing: an extended learning experience in which students observe professionals in particular careers as they go through a day on the job.

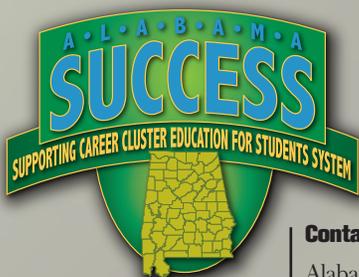
Master's degree: a degree awarded by universities for study beyond a bachelor's degree.

Postsecondary education: education beyond high school. Middle and high school are referred to as *secondary education*, so *postsecondary* means after high school.

STARS (State Transfer & Articulation Reporting System): STARS System allows public two-year students in Alabama to obtain a Transfer Guide/Agreement for the major of their choice. This guide/agreement, if used correctly, guides the student through their first two years of coursework and prevents loss of credit hours upon transfer to the appropriate public four-year university in Alabama.



Alabama Career Clusters and Pathways



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Non-discrimination Statement

No person shall be denied employment, be excluded from participation in, be denied the benefits of, or be subjected to discrimination in any program or activity on the basis of disability, sex, race, national origin, color, or age. Ref: Sec. 1983, Civil Rights Act, 42 U.S.C.; Title VI and VII, Civil Rights Act of 1964; Rehabilitation Act of 1973; Sec. 504; Age Discrimination in Employment Act; Equal Pay Act of 1963; Title IX of the Education Amendment of 1972; Title IX Coordinator, P.O. Box 302101, Montgomery, Alabama 36130-2101 or call (334)242-8444.

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