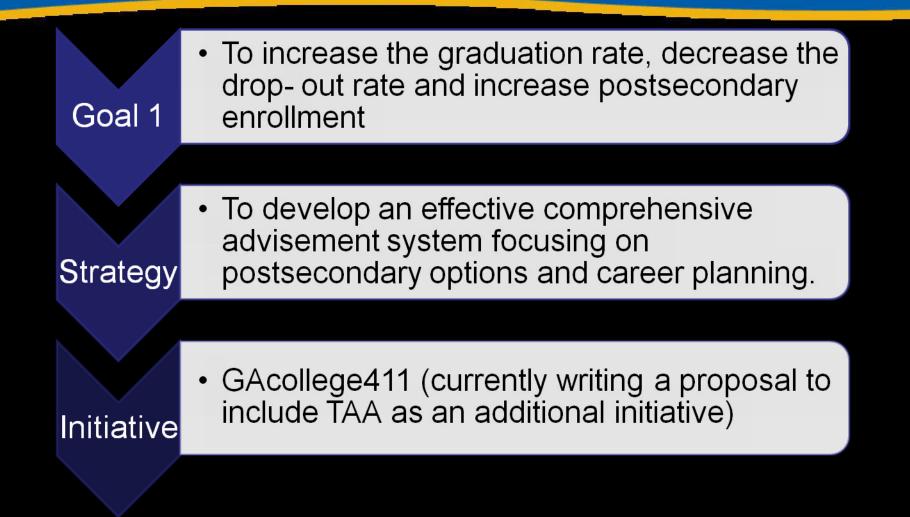
A partnership to assist ALL Georgia students with "educational and career planning"

Strategic Goal 1

GAcollege411

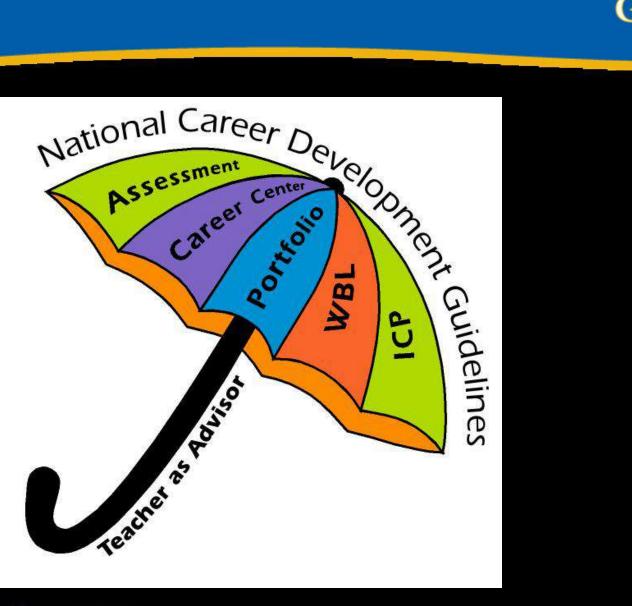






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Where Do Counselors Fit?

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ASCA National Model

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National Standards

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The Perfect STORM

National Legislation/Perkins IV/National Trend

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Incorporate and align secondary and postsecondary education

Include academic & CTE content in a coordinated, non-duplicative progression of courses

Lead to an industry-recognized credential or diploma at the postsecondary level, or an associate or baccalaureate degree Perkins Programs of Study = Peach State

Pathways =

Curriculum

May include the opportunity for secondary students to acquire postsecondary credits

Peach State Pathways: Program of Study

Student Name



Date

Student Signature

Advisor/Counselor Signature

Parent/Guardian Signature

This plan of study should serve as a guide, along with other career planning materials, as you continue your education. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans will meet minimum high school graduation requirements as well as minimum college entrance requirements.

Applicants to Board of Regents institutions should be advised that meeting minimum requirements will not guarantee admission at any institution. Institutions may set additional and/or higher requirements.

	Secondary Energy Systems					TCSG Lanier Technical College			USG B.S. in Electrical Eng. Tech. Southern Poly State U.		
Course/Grade	urse/Grade Ninth Tenth Eleventh Twelfth			Certificate	Associates		13 th and 14 th	15 th and 16 th			
English	9 [⊭] grade Lit/ Composition	10 th grade Lit/ Composition	American Lit/ Composition		AP World Lit/ Composition		-Fundamentals of English I -Interpersonal Rel/Prof. Dev.	-Composition & Rhetoric -Degree Level English Humanities/Fine Arts		-Composition I -Literature Course -Public Speaking	-Composition II -Humanities/Fine Arts Courses
Mathematics	Mathematics I	Mathematics II	Mathematics III		AP Calculus		-Algebraic Concepts -Trigonometry	MAT 1101 or 1100 or 1111		Pre-Calculus	Calculus I
Science	Biology	Physical Science	Chemistry		Environmental Science	it Point	<u> </u>	Degree Level Natural Sciences/Mathematics	it Point	-See Advisor before selecting Science courses	Science, Technology and Society
Social Studies		World History	US History		Government (1/2 unit) Economics (1/2 unit)	or Exi		Degree Level Social/ Behavioral Sciences	or Exi	-American Context -World History	-Behavioral Science -Cultures & Societies
Required Electives	Foundations of Engineering and Technology	Energy and Power Technology	Appropriate and Alternative Energy Technologies		Health & Personal Fitness (<i>can be taken</i> <i>in grades 9-12</i>)	intrance d	-Intro Elec. Utility Industry -Fundamentals of Power/Alt. Currents -Network Communications	-Intro to Distribution Eng -Intro to Metering -Power Plant -Alternating Currents	intrance (-Survey of Engineering Graphics -Technical Writing -Calculus II	-Principles of Chemistry I -Ordinary Differential Equations
	Foundations of Electronics	Entrepreneurship or Modern Language	CADD Sol Modeling o Modern La	r	Energy Systems Internship or Work- Based Learning		-Electrical Substations -Intro to Distribution Eng -Intro to Metering	-Fundamentals of Power/Alt. Currents -Direct Current Circuits	ш	-Orientation -Fundamentals	-Digital III -Data Communications -Test Engineering
Selective Electives	2 units required for admissions to Georgia University System Colleges/Universities For a listing of Modern Language/Latin courses offered school,			Other Electives ting of other elective offered at your high please check with your counselor, or curriculum ok.		-Power Plant -Direct Current Circuits I -Alternating Current I -Intro to Computers -Electives	-Intro to Computers -Intro to Electrical Utility Industry -Network Communications -Electrical Substations -Degree Level Gen. Core Elective -Elective -Elective courses		- Circuits I - Digital I - Circuits II - Circuits II - Electronics I - Digital II - Electronics II	-High Frequency Systems -Survey of Electric Machines -Intro to Control Systems -Signals and Systems Analysis -EET Electives	

In a POS, students have many options to ENTER and EXIT from their academic studies or the workforce. When a student graduates from high school, they are eligible to choose one of many ENTRANCE POINT options: **1.** Enroll in either a 2 or 4 year post-secondary program; **2.** Enroll in an apprenticeship program or the military; or **3.** Enter the workforce using technical skills learned. When a student finishes a 2- or 4-year degree program, they may choose to EXIT and **1.** <u>enroll</u> in an apprenticeship program or the military; **3.** Enter the workforce using technical skills learned. Jobs available after High School: Assemblers and Fabricators, Machine Operators, Servicer and Tenders, Computer-Controlled Machine Tool Operator (\$22,000 to \$36,000 a year). Jobs available after Technical College: Electronics Engineering Technician, Environmental Engineering Technician, Nuclear Technicians (\$34, 000 to \$63,000) Jobs available after University degree Electrical Engineer, Mechanical Engineer, Chemical Engineer (\$69,000 to \$100,000).

The following link will list Board of Regents institutions offering degrees in <u>Energy Systems</u>. In the first box titled "Major," type "Electrical Engineering," "Renewable Resources," or "Environmental Engineering." Then click the button at the bottom "View Matching Campuses" for a list. It will not be necessary to fill in all the other boxes. Further research will be required for specific programs of study that align with the pathway.www.gacollege411.org/Select/MatchAsst/default.asp

Go to GAcollege411 at <u>www.GAcollege411.org</u> for more information about your education and career planning, including valuable financial information (grants and scholarships including HOPE Program, loans, <u>FAFSA</u> and CSS forms).

t.	Career-Related Education Activities	Postsecondary Options:	Possible Postsecondary Dual Enrollment Opportunities may include:		
Career Enhancement Opportunities	Career Awareness Career Exploration Instructional Related Connecting Work-Based Learning Employability Skill Dev. Cooperative Education Internship Youth Apprenticeship Clinicals	 4-Year Universities/Colleges 2-Year Colleges Technical Colleges State Registered Apprenticeships Special Purpose Schools On-the-Job Training Military 	 *Advanced Placement *Articulated Credit (Technical Colleges) *ACCEL (Degree Programs) *HOPE (Certificate and Diplomas) Early College Gateway to College Joint Enrollment (postsecondary credit only) Residential (G.A.M.E.S. at Middle Georgia College and State Univ.) Residential (Advanced Academy at Univ. of West Georgia) 		
			*Postsecondary credit opportunities allow high school students to earn both college and high school oredit simultaneously while in high school. Check with your counselor/advisor and Education and Career Partnership representative for more		
Student Industry Credentialing			information regarding these opportunities and others, such as Early College which serves both middle and high school students.		

Upon completion of sequenced courses in a selected Career Pathway, students are eligible to complete national industry recognized student credential for fulfillment of End of Pathway Assessment. Secondary students completing the Energy Systems pathway will be able to sit for National Industry Credentialed assessment offered on-line from a national testing agency. Once mastery is reached, students will receive recognition for completion and use this credential in conjunction with job opportunities or continuing training.

Earning Postsecondary Credits While in High School

A vital way to get ahead, save money and time, and realize you can pass college courses is by earning postsecondary credits as a high school student. You need to talk with your parents, school counselor, or advisor about the proper courses to take each year in high school. Dual Enrollment agreements are reached and created between local school systems and the Georgia technical colleges, college and universities. These discussions need to occur so that plans are made to be best prepared for postsecondary learning to help you reach your career goals sooner. It is important for you to register your program of study in your electronic portfolio on the GAcollege411 web site. For Dual Enrollment possibilities please see your high school counselor.

The sample ENERGY SYSTEMS PATHWAY occupations listed below meet two out of three of GaDOE definitions for high-demand, high-wage and high-skilled. www.occsupplydemand.org

Occupation Specialties	Level of Education Needed	Average Salary	Annual Average Openings in Georgia
Environmental Engineering Technician	Associate Degree	\$34,112	40
Electrical Engineer	Bachelor Degree	\$74,547	110
Environmental Engineer	Bachelor Degree	\$65,749	50
Nuclear Engineer	Bachelor Degree	\$103,272	10
Energy Management & Controls	Technical Diploma	\$37,150	50

ENERGY SYSTEMS

Energy is a diverse field with many job opportunities. There are many people who help conserve, generate energy, transport it and connect it to the things we use everyday. There are also those creating new methods of energy generation. Working in energy can mean working for utilities, for gas and oil companies, for government and research groups, for energy education or environmental regulation agencies, for nonprofit energy awareness and conservation organizations or for many other energy related agencies.

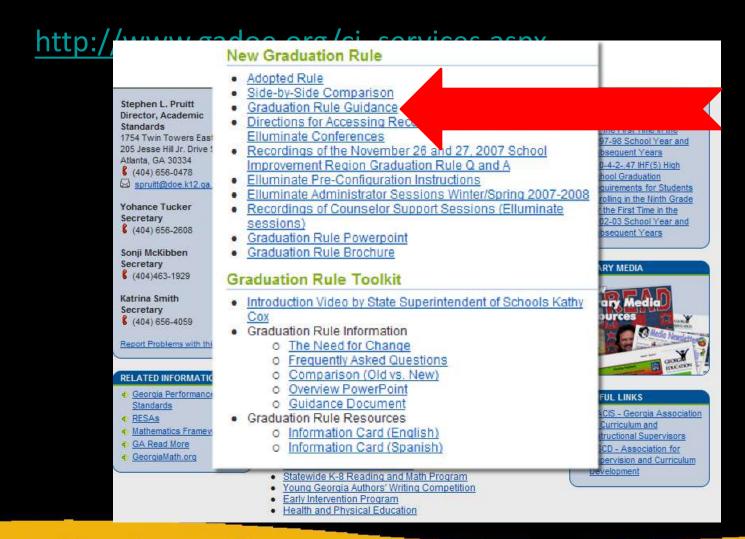
Most of the electricity produced in the United States comes from non-renewable sources such as coal, petroleum and natural gas. Related jobs include power plant operators, power distributors and dispatchers, industrial machinery mechanics, reactor operators and engineers.

Renewable power generation, from sources such as wind, water, solar and biomass, are becoming more common. Research and development in this area is ongoing, but the job opportunities in renewable energy will increase through 2014.

Employment opportunities in the entire energy industry should be excellent through 2014. Jobs in the energy field require varying levels of education, from work experience to college and advanced degrees.

For more information, visit the following websites: <u>www.careervoyages.gov</u> <u>www.electrifyingcareers.com</u> <u>www.GAcollege411.org</u> <u>www.dol.state.ga.us</u> <u>www.greenenergyjobs.com</u>

Resources, materials, and tools: GAcollege411



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Peach State Pathway: Education and Career Planning Tool	109	
Available Resources	110	
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Requirements	111	
Course Information	112	
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BRIDGE Bill

GAcollege411

counseling, advisement, career awareness, career interest inventories, and information

Before the end of the second semester of the eighth grade, students shall develop an individual graduation plan in consultation with their parents, guardians, or individuals appointed by the parents or guardians to serve as their designee. High school students shall be provided guidance, advisement, and counseling annually

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An individual graduation plan shall:

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Conclusion

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Georgia's 11 Program Concentrations

Career Pathway

Nursing PATHWAY/Curriculum

11

Emergency Services PATHWAY/Curriculum

Medical Services PATHWAY/Curriculum

Health Informatics PATHWAY/Curriculum

Biotechnical Research & Development PATHWAY/Curriculum

> Diagnostic Services PATHWAY/Curriculum

Physical Medicine PATHWAY/Curriculum

Personal Care Services-Cosmetology PATHWAY/Curriculum

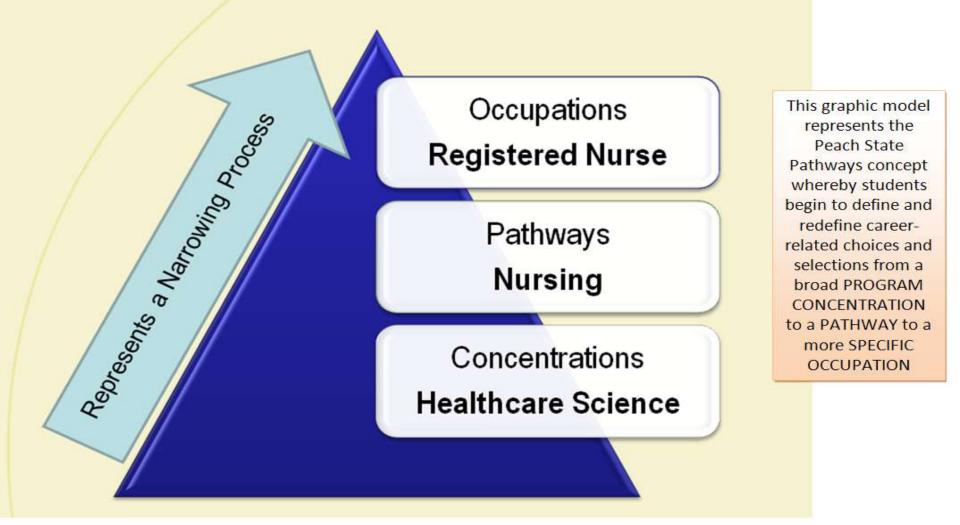
Healthcare Science CONCENTRATION

25.52100 Introduction to Health Science

Therapeutic Services Nursing

25.52200 Application to Therapeutic Services

25.56100 Nursing Essentials



Who Am I?

GAcollege411

Self-Awareness

Where Am I Going? GAcollege411



How Am I Going To Get There? GAcollege411





GaDOE tools, materials and resources: •Teachers-As-Advisor Activities •GaDOE 411 Manual •PowerPoints •Videos

CACG Materials and Resources

GAcollege411

College

Gacollege411

The career pathway concept provides students with a simple process to continually narrow their choices from the broad concentration, to the narrower pathway, to finally a specific occupation. See the appendix for Georgia's model of the career pathway concept. In GAcollege411, under the tab CAREER PLANNING in the section identified as "Explore Careers", the exploration components reflect Georgia's Peach State Pathways. By first using the career-related assessments, student can begin to define and explore specific pathways and the aligned occupations:

particular particular and	
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The last	
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Sector Sector Sector	

- By title
- With search and sort tool: <u>Career Finder</u> to search for careers using interesting

topics like salaries, skills, and interest; <u>Compare Careers</u> to compare two caseers side by side, and, <u>Career Plan Builder</u> to mix and match your caseer and life options to create your future.

- Georgia Peach State Pathways
- Georgia's 11 Program Concentrations
- 1 A. D. B. B. S.

GaDOE GOAL 1 - Strategy: Develop an improved comprehensive system of student advisement forming on postsecondary options and careers. INITLATIVE: GAcollege411

BENCHMARK to measure effectiveness:

Expand Your Opportunities

90% of all 5" graders have explored and investigated at least three careers prior to the transitional parent/student conference or student led conference 90% of all 9" graders have explore and investigated at least three additional careers prior to student/family conference

Career Centern

Career centers provide a wide variety of information to students, parents, teachers, and counselors. These centers send the message to students and their families that education has a focus beyond graduation in a student's future. GaDOE recommends middle and high schools create career centers visible to students, parents, and staff. These centers provide access to computers, reference materials, websites, college information, university technical school information, career and educational materials, testing materials, and financial aid and scholarship information for all students including students with limited English speaking abilities. Career centers require:

Georgia Depatrumt of Education Kalty Con, State Superintendent of Schools December, 2009 * Page 11 of 39 All Right Reserved

GAcollege411



Expand Your Opportunities

Matrix for Student Advisement Tools and Materials on GAcollege411

This matrix represents a suggested framework for delivery of Teachers-as-Advisors (TAA) activities, motivational modules, videos, and narrated PowerPoint presentations for grades 6-12 located on the GAcollege411web site. These tools can be found under "Middle and High School Educators" and "Motivational Modules" (available in English and Spanish). It is the intention these tools be utilized as a collaborative model delivered by advisors, counselors, business partners, or local colleges. The matrix represents a model to address Strategic Goal #1: to increase the graduation rate, decrease the dropout rate and increase postsecondary enrollment by providing an improved student advisement system with a focus on postsecondary options and careers.

Grade	Activity	When	Who	Audience
General	Student & Family Conference/Progress Report	Ap/May	Advisor	Parents/Student
6 th				
	TAA Activity – Choose People Who Can Help Se		Advisor	Students
			Advisor (School Specific Activity)	Students
			eptember Advisor (Requires 411 check)	
	Motivational Module 3-A/B: Believe in Your Child	October	Counselor/Business Partner/Local College	Parents
	TAA Activity – Goal Setting	October	Advisor	Students
	TAA Activity – Program Concentrations	October	Advisor	Students
	TAA Activity – Career Cluster Survey	November	Advisor (Requires 411 check)	Students
	TAA Activity – Graduation Requirements	November	Advisor	Students
	TAA Activity – How I Study Best	December	Advisor	Students
	TAA Activity – Listening Skills	January	Advisor	Students
	Motivational Module 3-C/D: Believe in Yourself	January	Counselor/Business Partner/Local College	Students
	TAA Activity – Conflict Management	February	Advisor	Students
	Power Point Selecting Your Peach State Pathway	February	Counselor	Parents
	TAA Activity – Exploring Nontraditional Careers	February	Advisor	Students
	TAA Activity – Stereotyping	March	Advisor	Students
	TAA Activity – Student/Family Conference	March	Advisor (School Specific Planning Activity)	Students
	Power Point Selecting Your Peach State Pathway	April	Counselor/Advisors	Parents
	Student/Family Conference	April	Advisor	Parents/Student
	TAA Activity – Values	May	Advisor	Students
	TAA Activity – 6th grade End of Year TAA Survey	May	Advisor	Students

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Creating the 411 Account 6th Grade Advisement Activity Estimated time: 20-30 Minutes

Georgia's Teachers-As-Advisors Framework Goal: 6-1.1 Create, manage, and enhance a Peach State <u>GAcollege</u> Portfolio Competencies:

a. Record initial information to begin a Peach State Pathway Plan of Study/GAcollege411 PORTFOLIO

Objectives: Students will create a GAcollege411 account

Materials: Handout: "Creating Your 411 Account" and "Top 10 Reasons" print front and back to save paper. Order bookmare, "Explore GAcollege411", and bookmarks, 3 Simple Steps", from GAcollege at "Communications" at the bottom of the homepage Activity:

- 1. Sey: Welcome to advisement. I am glad to see you. I hope all is going well with you and your family. If you are having any problems adjusting to middle school, you must let me know so I can help you. This is all new and different from the elementary school and it's certainly okay to ask for help! Today in advisement we are going to talk about a really "cool" web site that is free to all Georgia students. This web site was designed to assist all students and their families with their educational and caseer planning. It is important that you begin the process using GAcollege411. You say, I am only in the 6" grade. It doesn't matterly the different from the belter was designed to use. Today's world of work is very different from what it used to be like where people lospt the same job for all their lives. People are expected to change jobs 7 to 10 times in their lifetime and jobs today require more education than they ever have before. Most jobs today require ducation beyond high school. So the sconer you get started the better it is going to be for you. I will be helping you through the process and providing information. This simple flyer will provide you some information about GAcollege411.
- 2. Distribute kandout, say: It is an easy three step process: Read the steps.
 - a) Step # 1 Learn about yourself by taking GAcollege411's career-related assessments. Write on the board/lipchart WHO AM I?
 - b) Step # 2 Explore and investigate the world of work to identify the Georgia Program Concentration, Peach State Pathway and Occupations that interest you. Write on the board/lipekart WHERE AM I GOING?
 - c) Step #3 Create a plan of study including both secondary and postsecondary countermode, a financial aid plan to reach your goal and finally a job search. Write on the board/lipckart HOW AM I GOING TO GET THERE?
- 3. Say: Now let's focus on the handout:
 - a) The picture on the left represents the GAcollege411 homepage... the picture will change to reflect different levels of user... this is the picture for middle schools. The red arrow points to where you start creating your account and the blue arrow shows you where to start in the program.

b) The box on the right gives you the web address (Write it on the board)flip chart for emphasis)

c) The huge arrow at the bottom has the steps listed for you to follow to create your account. Remember there are multiple computers in the building that you can use or, if you have a computer at home, you can use your home computer. This web site is

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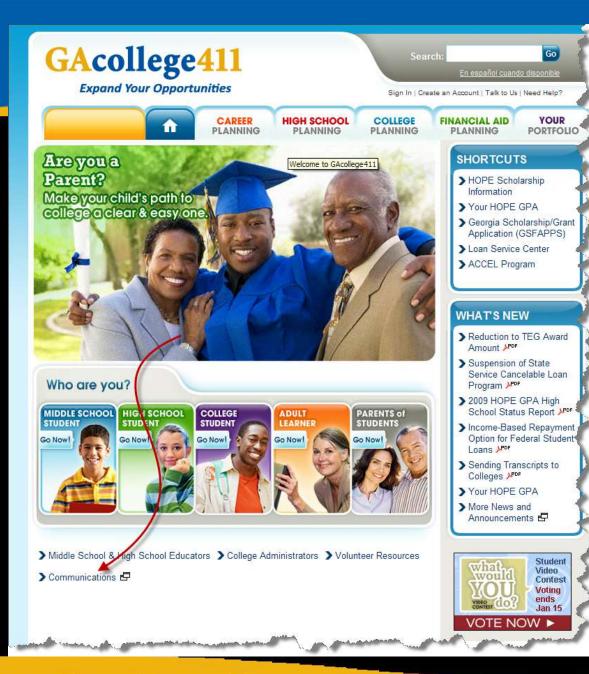
GAcollege411

Expand Neur Opportunitie www.GAcollog.0411.org



 available anywhere at any time on the internet! Don't miss out on the valuable information you can use to figure out the question, "What do I want to be when I grow up?" Not an easy question and one that will take some time and effort to figure out!
 4. Diamiss: That's it for today. As you leave pick up a GAcollege411 bookmark on my desk. See you next time! Don't forget to create your account. I will check in a couple weeks to see if you have done it. If time permits, remind students of important events coming up is. FISA. Testing Dates, school events like fertivals, high school Joothall gave. Gooling.up.and where they say at highest etc.. Also on the back are the 10 top reasons to use GAcollege411.

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