Peach State Pathways: Program of Study

Business & Computer Sciences

Learner Name

_____

Date _____

Learner Signature _____

Parent/Guardian Signature _____

Advisor/Counselor 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.

High School Education and Career Pl... — Graduation Rule for 9 grade students enrolling 2008-2...

I. English Language Arts (4 units)	II. Mathematics (4 units)	III. Science (4 units)	IV. Social Studies (3 units)	V. Required Electives (3 units) and Other Electives (4 units) CTAE and/or Modern Language/Latin and/or Fine Arts	VI. Health & Physical Edu (1 unit)
English 9 English 10 English 11 English 12	Math 1 Math 2 Math 3 Math 4 OR Accelerated Math 1 Accelerated Math 2 Accelerated Math 3	Biology Physical Science OR Physics Chemistry OR Environmental Science OR Earth Systems OR an AP/IB course	Am Gov/Civics (1/2 unit) World History US History Economics (1/2 unit)	**Career Pathway Sequence of Courses:** 11.41300 Computing in the Modern World 11.41800 Beginning Programming 11.42100 Intermediate Programming **CAREER PATHWAY RELATED COURSES:** 11.01600 AP Computer Science (A) 11.01700 AP Computer Science (AB) 11.43100 Web Design 06.41600 Business Essentials 07.42600 Financial Literacy	Health & Personal Fitness
AP Lit and Comp AP Lang and Comp IB English SL (Am Lit) IB English HL (World Lit)	AP Statistics Calculus AP Calculus AB AP Calculus BC IB Math Methods IB Math Studies SL IB Math SL IB Math HL	AP/IB course AP Biology AP Physics AP Chemistry IB Biology SL IB Biology HL IB Biochemistry IB Chemistry SL/HL	AP World History AP US History AP Government AP Microeconomics AP Macroeconomics IB Economics SL IB History of the Americas (SL)	**Modern Language/Latin** 2 units required for admission to Georgia University System Colleges/Universities For a listing of Modern Language/Latin courses offered at your high school, please check with your advisor, counselor, or curriculum handbook.	**Sample Additional Health & PE courses:** Team Sports Rec Games Aerobics
Sample Additional English Courses: Literary Types/Composition Oral/Written Communication	**Sample Additional Math Courses:** TBA	**Sample Additional Science Courses:** Microbiology Environmental Science AP Environmental Sci Aviation Meteorology Astrophysics	**Sample Additional Social Studies Courses:** Current Issues The Humanities Technology and Society Sociology AP Macroeconomics AP Microeconomics	**Fine Arts** Visual Arts Performing Arts For a listing of Fine Arts courses offered at your high school, please check with your advisor, counselor or curriculum handbook. **VII. Other Electives** For a listing of other elective courses offered at your high school, please check with your advisor, counselor, or curriculum handbook.	

Career Enhancement Opportunities

Career-Related Education Activities	Postsecondary Options:	Possible postsecondary credit opportunities may include:
❑ 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) ▪ *Dual Enrollment/ACCEL (Degree Programs) ▪ *Dual Enrollment/HOPE (Certificate and Diplomas) ▪ Joint Enrollment (postsecondary credit only) *Postsecondary credit opportunities allow high school students to earn both college and high school credit simultaneously while in high school. Check with your counselor/advisor and Education and Career Partnership program manager for more information regarding these opportunities and others, such as Early College which serves both middle and high school students.

Current GEORGIA Graduation Rule for student entering the 9th grade in fall of 2008-2009 Areas of Study:	Credits	Postsecondary Programs of Study Technical College	Postsecondary Programs of Study University of Georgia System
I. English/Language Arts	4	Select the following link for a list of Technical College System of Georgia (TCSG) institutions offering programs in **Computing.** Each technical college varies in the specific degrees (AAS), diplomas, and certificates offered. https://kms.dtae.org/portal/tcsg/TCSGProgramOfferings.aspx **Step 1:** Use the drop-down box to select the term you plan to enter a TCSG institution; **Step 2:** From the Specific Program drop-down box select **Computer Programming** or **Microcomputer Specialist.** You can then view a list of TCSG institutions that offer this program as well as the specific campus and awards (degree, diploma or certificate) offered.	The following link will list Board of Regents institutions offering degrees in **Computing.** In the first box titled "Major," type "Computer Science" or "Management Information Systems." 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 may be required for specific programs of study that align with the pathway. http://www.gacollege411.org/Select/MatchAsst/default.asp
II. Math	4		
III. *Science	4		
IV. Social Studies	3		
V. **Career, Technical and Agricultural Education (CTAE), and/or Modern Language/Latin, and/or Fine Arts	3		
VI. Health & Physical Education	1		
VII. Electives (4 units)	4		
TOTAL UNITS	23		

* 4th Science may be used to meet both the required science and required elective in CTAE sequence of courses (V)
**Student <u>must</u> complete 3 units in a pathway to complete CTAE pathway and take end of pathway assessment. Student <u>must</u> complete 2 years of the same Modern Language/Latin for admission to Georgia Board of Regents colleges/universities.

The sample COMPUTING PATHWAY occupations listed below meet two out of three of GDOE 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
Computer and Information Systems Managers	Bachelor Degree plus work experience	$101,400	530
Computer Programmers	Bachelor Degree	$73,674	330
Computer Software Engineers	Bachelor Degree	$77,022	730
Computer System Analysts	Bachelor Degree	$74,443	890

COMPUTING

The computing profession includes a variety of jobs – computer engineering, computer science, information systems, information technology, and software engineering. The increased use of computers has created a high demand for specialists to provide advice to users, as well as for day-to-day administration, maintenance, and support of computer systems and networks. Computing jobs are generally high paying, and those working in the computing profession have a high level of job satisfaction. Computing majors require a foundational knowledge of problem solving and logical thinking.

Employers will seek those with strong programming, systems analysis, interpersonal and business skills. Most employers prefer to hire those with at least a bachelor's degree and a broad knowledge of, and experience with a variety of computer systems and technologies. Certifications and practical experience are essential for persons without degrees.

Job opportunities in the computing field are expected to be excellent over the next 10 years. It is estimated that the number of people trained for jobs in the computing industry will fall far short of the employment demand.

For more information, visit the following websites:
Association for Computing Machinery –www.computingcareers.acm.org

www.GAcollege411.org

www.dol.state.ga.us