

Student Plan of Study – Veterinary Science



Richard Woods, Georgia's School Superintendent
"Educating Georgia's Future"

Name _____ Date _____ School _____

Parent/Guardian Signature _____ Date _____ Advisor/Counselor Signature _____ Date _____

Current Area of Interest: Agriculture, Food & Natural Resources/Veterinary Science - This PLAN OF STUDY should serve as a guide for the next four years. Courses listed in this plan are only recommended coursework and should be individualized to meet each student's educational and career goals. All plans will meet minimum high school graduation requirements. Applicants to the University System of Georgia and the Technical College System of Georgia institutions should be advised that meeting minimum requirements will not guarantee admission. Postsecondary institutions may set additional requirements.

Grade Level	I. English/Language Arts Total 4 credits	II. Math Total 4 credits	III. Science Total 4 credits	IV. Social Studies Total 3 credits	V. Health/Personal Fitness Total 1 credit	VII. Possible electives in additional pathways (students should check the local course description catalog for these and other electives) Total 4 credits
9	9 th Literature & Composition or Approved Dual Enrollment Course 1 credit Credit Earned <input type="checkbox"/>	1 CCGPS Cord Algebra 2 CCGPS Analytic Geometry 3 CCGPS Accel Cord Algebra/Analytic Geometry 4 CCGPS Accel Analytic Geometry B/Adv. Algebra 1 credit * Credit Earned <input type="checkbox"/>	Biology or Approved Dual Enrollment Course 1 credit * Credit Earned <input type="checkbox"/>	American Government/Civics or AP Government/ Politics US or Approved Dual Enrollment Course ½ credit Credit Earned <input type="checkbox"/>	Health ½ credit Credit Earned <input type="checkbox"/> Personal Fitness ½ credit Credit Earned <input type="checkbox"/>	Advanced Academic Pathways English/Language Arts, Math, Science, Social Studies An advanced academic pathway may be followed in any one of the content subjects listed above. Upon graduation, students earn an advanced academic pathway when they complete the required coursework to include at least one AP or one IB or one Dual Enrollment course. An advanced academic pathway should also include at least two credits in one world language. AP, Dual Enrollment and Georgia Virtual School courses may be available.
10	10 th Literature & Composition or World Literature & Composition or Approved Dual Enrollment 1 credit Credit Earned <input type="checkbox"/>	1 CCGPS Analytic Geometry 2 CCGPS Advanced Algebra 3 CCGPS Accel Analytic Geometry/Adv. Algebra 4 CCGPS Pre-Calculus 1 credit * Credit Earned <input type="checkbox"/>	Physical Science or Physics or AP Physics or Approved Dual Enrollment 1 credit * Credit Earned <input type="checkbox"/>	World History or AP World History or Approved Dual Enrollment 1 credit Credit Earned <input type="checkbox"/>	02.47100 Basic Ag Science or Approved Dual Enrollment 1 credit Credit Earned <input type="checkbox"/>	World Language Pathways **Two credits required for admissions to University System Institutions. For a listing of world language courses offered at your high school, please check with your advisor, counselor, or local course description catalog. A world language pathway may be followed in any of the world language areas included in the state list of approved courses. Upon graduation, students earn a world language pathway when they complete three credits in one language. The third course may reflect an AP, IB or Dual Enrollment designation. Georgia Virtual School and ACCEL courses may be available.
11	American Literature/Composition or AP English Language & Composition/American Lit or Approved Dual Enrollment Course 1 credit Credit Earned <input type="checkbox"/>	1 CCGPS Adv. Algebra 2 CCGPS Pre-Calculus 3 CCGPS Accel Pre-Cal 4 CCGPS Cal or AP Cal 1 credit * Credit Earned <input type="checkbox"/>	Chemistry or Environmental Science or Earth Systems or AP/IB or Approved Dual Enrollment Course 1 credit * Credit Earned <input type="checkbox"/>	United States History or AP US History or IB History of the Americas or Approved Dual Enrollment Course 1 credit Credit Earned <input type="checkbox"/>	02.42100 Animal Science & Biotechnology or Approved Dual Enrollment Course 1 credit Credit Earned <input type="checkbox"/>	Fine Arts/Performing Arts Pathways Visual Arts, Dance, Music, Journalism, Theatre A fine arts pathway may be followed in any one of the five areas listed above. Upon graduation, students complete a fine arts/performing arts pathway when three courses have been successfully completed in any one of the five areas. A student should consult a counselor or advisor for related coursework. AP, Dual Enrollment and Georgia Virtual School courses may be available.
At the end of the 11th grade, students planning to enter a University System of Georgia Institution or Technical College System of Georgia Institution should take the appropriate admissions test (SAT, ACT, Compass).						Legend:
12	Advanced Composition or British Literature or AP/IB English Literature & Composition or Approved Dual Enrollment Course 1 credit Credit Earned <input type="checkbox"/>	CCGPS Pre-Cal or Adv Math Decision Making or Math of Ind & Govern or AP Statistics or IB Math or Approved Dual Enrollment Course 1 credit * Credit Earned <input type="checkbox"/>	Any other of the previous courses or Zoology or Ecology or Approved Dual Enrollment Course 1 credit * Credit Earned <input type="checkbox"/>	Econ/Business/Free Enterprise or AP Macro Econ or AP Micro Econ or IB Econ or Approved Dual Enrollment Course ½ credit Credit Earned <input type="checkbox"/>	02.42400 Veterinary Science or Approved Dual Enrollment 1 credit Credit Earned <input type="checkbox"/>	*Science: Approved 4th Sciences may be used to meet both the required science and required elective in a Career, Technical, and Agricultural Education (CTAE) sequence of courses; see Fourth Science Requirements for more information. Student may take science courses in any sequence. *Math: Select Math sequence 1, 2, 3, 4, based on 9 th grade entry course. **Students must complete two credits of the same world language for admission to University System of Georgia institutions. *** Students should complete a CTAE pathway and take the related end of pathway assessment.
Sample Elective Courses	Other English Elective Courses: Literary Types/Composition Journalism Oral/Written Communication Speech	Other Math Elective Courses: Calculus AP Calculus Math of Finance	Other Science Elective Courses: Genetics or AP/IB Science or Microbiology or Entomology	Other Social Studies Elective Courses: Current Issues or AP/IB Soc Studies or Sociology or World Geography	Other CTAE Elective Courses: Other CTAE electives are available to complete a related pathway	NOTE: Local systems may offer core courses in a different sequence; not all local systems offers every pathway. Students should explore all credit possibilities including Georgia's Virtual School Program , Dual Enrollment , Advanced Placement (AP), International Baccalaureate (IB) and Work-Based Learning (WBL) to reach their educational and career goals.

Agriculture, Food & Natural Resources

SAMPLE Pathway OCCUPATIONS			
See *Georgia's HOT Careers to 2020 for more information on high-skilled, high-wage and high-demand occupations.			
Occupation Specialties	Entry Level of Education Needed	2012 Annual Wage	Annual Openings 2012-2020
Veterinarians	Professional Degree	\$76,600	10
Veterinary Technologists and Technicians	Associate's Degree	\$28,100	30
Veterinary Assistants and Laboratory Animal Caretakers	High School	\$21,700	10

Source: Georgia Department of Labor/ONET

For more information about your education and career planning, including valuable financial aid information that includes grants and scholarships, see your school counselor.			
*** Current Georgia Graduation Rule			
Coursework	Credits	Coursework	Credits
I. English/Language Arts	4	V. Health & Physical Education	1
II. Math	4	VI. **Career, Technical & Agricultural Education and/or ***World Languages, and/or Fine Arts	3
III. *Science	4	VII. Electives	4
IV. Social Studies	3	TOTAL	23

*Selected [4th Science](#) courses may be used to meet both the required science and required elective in a CTAE sequence of courses.
 **Students must complete three credits to complete a CTAE pathway and take the end of pathway assessment.
 ***Students must complete two credits of the same world languages for admission to Georgia Board of Regents colleges/universities.
 **** Current graduation requirements should be met in all content areas.
 NOTE: This plan represents minimum graduation requirements. Local systems may require additional coursework.

Postsecondary Transition:
<ul style="list-style-type: none"> Students who will continue their education in a Program of Study at one of the University System of Georgia institutions should prepare to take the ACT or SAT for admissions. Tests for admission may vary from institution to institution. Students should contact the selected institution for specific testing information. Additional admissions information can be found at Staying On Course. (www.usg.edu/student_affairs/documents/Staying_on_Course.pdf) Students who will continue their education in a Program of Study at one of the Technical College System of Georgia institutions should prepare to take the COMPASS test for admissions. Students who will continue their education and training in the US Military should take the ASVAB assessment. Students should utilize electronic college and career data bases to select the most appropriate postsecondary opportunities to match their selected career field, including registered apprenticeships. Georgia's dual-credit programs have been combined into one program entitled Move on When Ready, in which high school students may earn their high school course credits while taking college courses.

Possible Student Pathway Credentialing Opportunities:
Students completing a pathway are eligible to take a Credentialing/End of Pathway Assessment (EOPA) upon successful completion of the three required courses in the pathway. For specific assessment information, refer to http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/CTAE-Georgia-Assessments.aspx

*Related Pathway Occupations:	Other Related Agriculture, Food, & Natural Resources Occupations:
Animal Scientists Veterinarians Veterinarian Technologists and Technicians Veterinary Assistants and Laboratory Animal Caretakers Zoologists and Wildlife Biologists Animal Control Workers Farm and Ranch Managers	Soil and Plant Scientists Biologists Hunters and Trappers Biological Technicians Animal Trainers

*ONET Online

Veterinary Science
<p>Veterinarians treat health problems of pets, livestock, and animals in zoos, racetracks, and laboratories. They are concerned with preventing, controlling, and curing animal diseases as well as researching human and animal health to develop new ways to prevent and cure diseases. Some veterinarians are meat inspectors, and others work in wildlife management.</p> <p>The American Medical Veterinary Association reports that about 70 percent of veterinarians work in private medical practices treating small animals. Almost one-fourth of all veterinarians work in "mixed" practices, treating pigs, goats, cattle, and sheep in addition to companion pets. A small number of veterinarians treat large animals (horses or cattle) exclusively. These veterinarians drive to farms or ranches to provide services for herds or individual animals. Veterinarians involved in food safety and inspection check livestock for diseases that may be transmitted to human beings. They advise owners on the treatment of their animals as well as ordering quarantines when necessary. They may also inspect slaughtering and processing plants and enforce federal regulations concerning food purity and sanitation.</p> <p>Veterinarians must obtain a Doctor of Veterinary Medicine (D.V.M. or V.M.D.) from an accredited college of veterinary medicine after completing an undergraduate program. Competition is keen for admission to veterinary school. To apply, students should complete pre-veterinary course requirements (primarily science classes) as well as submitting test scores from the Graduate Record Examination (GRE), Veterinary College Admission Test (VCAT), or Medical College Admission Test (MCAT). After graduation from an accredited veterinary program, veterinarians must earn a passing grade on a national board examination, the North American Veterinary Licensing Exam, before practicing veterinary medicine.</p>