



HEALTH SCIENCE CLUSTER

**BIOTECHNOLOGY
RESEARCH AND
DEVELOPMENT
PATHWAY**

The Biomedical Research and Development pathway provides an understanding of human medicine through topics such as physiology, genetics, microbiology and public health. Courses will provide an introduction to teamwork and communication practices, organizational, critical-thinking and problem-solving skills. Areas of instruction include an understanding of the processes, structures and interactions of the human body, as well as the prevention, diagnosis and treatment of disease.

PATHWAY COURSES

- Introduction to Healthcare Science
- Essentials of Biotechnology
- Applications of Biotechnology

RECOMMENDED COURSES

- AP Chemistry or AP Biology
- AP Statistics
- Computer Science Courses
- Honors or Pre-AP Biology

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

TECHNICAL COLLEGES

- Associates of Science in Nursing
- Biochemistry
- Biomedical Sciences
- Biotechnology
- Dental Hygiene
- Epidemiology
- Health and Administration
- Healthcare fields (Pre-nursing, pre-vet, pre-med)
- Physical Therapy Assistant
- Public Health
- Radiologic Technology
- Surgical Technology

COLLEGES/UNIVERSITIES

- See www.GAcollge411.org for additional information.

CAREER AND TECHNICAL STUDENT ORGANIZATIONS



TOP CAREER CHOICES

- Biological Consultant
- Biological or Medical Illustrator
- Conservation Warden
- Crime Lab Technician
- Dental Hygienist
- Dietician Nurse
- Emergency Medical Technician
- Field Biologist or Ecologist
- Food and Drug Inspector
- Forensic Service Technician
- Human Resources Staff
- Industrial Hygienist or Process Manager
- Laboratory Technician
- Licensed Practical Nurse
- Meat and Poultry Food Inspector
- Medical Assistant or Records Administrator
- Medical Technologist
- Medical Writer
- Mortician
- Museum Educational Staff Member
- Museum Exhibit Designer
- National or State Park Ranger
- Nurse Anesthetist
- Pediatric Nurse
- Pest Control Specialist
- Phlebotomist
- Primary or Secondary Teacher
- Prosthesis-Maker
- Radiology Technician
- Sales Representative
- Science Journalism or Librarian
- University Research Assistant
- Waste Disposal Engineer
- Water Quality Controller
- Wildlife Management Specialist
- Zoo Assistant
- Zoologist



Source: GADOE Plans of Study

<http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/Georgia-Career-Pathways-New-Rule.aspx>



**CAREER
EXPLORATION
& Pathway Discovery**
CTAE Career Pathways / Fine Arts Pathways

- Alliance Academy for Innovation
- Denmark High School
- East Forsyth High School
- Forsyth Central High School
- Forsyth Virtual Academy
- Lambert High School
- North Forsyth High School
- South Forsyth High School
- West Forsyth High School