

# Check Out Our Career Pathways

## Agriculture, Food & Natural Resources:

- Natural Resources Systems
- Animal Systems



- Wildlife Manager
- Forest Technician
- Ecologist
- Park Manager
- Pulp & Paper Manager
- Veterinarian
- Animal Caretaker
- Agricultural Sales



**9th Grade:** English, Algebra I, Earth Science, World History/Geography I, Intro to Animal Systems

**10th Grade:** English, Geometry, Biology, World History/Geography II, Agriculture Production Technology or Small Animal Care

**11th Grade:** English, Algebra II, Chemistry, US/VA History, Introduction to Nat. Resources & Ecology Systems or Agriculture Production Technology

**12th Grade:** English, Advanced Math, Physics, US/VA Government, Computer Information Systems

**Other Required Courses/Recommended Electives (Grades 9 - 12):** Economics & Personal Finance, Health & PE (2 yrs), Foreign Language (3 yrs), Entrepreneurship Education, Marketing, Anatomy & Physiology, Intro. to Health & Med Sciences

## Architecture & Construction:

- Construction: Business Technology
- Construction: Weld Technology
- Design/Pre-Construction



- Construction Manager
- Carpenter
- Electrician
- Mason
- Plumber
- General Contractor
- Architect
- Engineer



**9th Grade:** English, Algebra I/Geometry/Algebra II, Earth Science, World History/Geography, Technical Drawing & Design, Engineering Drawing & Design

**10th Grade:** English, Geometry/Algebra II/Trigonometry/Pre-Calculus, Biology, World History/Geography, Agricultural Drawing & Design, Building Trades I

**11th Grade:** English, Algebra II/Trigonometry/Pre-Calculus/Calculus, Chemistry, US/VA History, Building Trades II or Advanced Drawing & Design

**12th Grade:** English, Trigonometry/Calculus/Differential Equations/College Algebra, Physics, US/VA Government, Construction Technology or Materials & Processes Technology

**Other Required Courses/Recommended Electives (Grades 9 - 12):** Economics & Personal Finance, Health & PE (2 yrs), Foreign Language (3 yrs), Other Electives to Complement Pathway

**Business Management & Administration:**

- Business Information Management/  
Business Management & Admin.
- General Management



- Accountant/CPA
- Adjuster
- Auditor
- Bookkeeper
- Budget Manager
- Finance Director
- Payroll Accounting Clerk
- Treasurer



**9th Grade:** English, Algebra I/Geometry/Algebra II, Earth Science, World History/Geography, Keyboarding, Principles of Business & Marketing, Business Management

**10th Grade:** English, Geometry/Algebra II/Trigonometry/Pre-Calculus/Calculus, Biology, World History/Geography, Business Law, Office Admin, Design Multimedia & Web Technology

**11th Grade:** English, Algebra II/Trigonometry/Pre-Calculus/Calculus/Advanced Algebra, Chemistry, US/VA History, Marketing, Accounting or Business Law

**12th Grade:** English, Trigonometry/Pre-Calculus/Calculus/Differential Equations, Physics, US/VA Government, Advanced Marketing or Entrepreneurship Education

**Other Required Courses/Recommended Electives (Grades 9 - 12):** Health & PE (2 yrs), Foreign Language (3 yrs), Other Electives to Complement Pathway

**Education & Training:**

- Teaching/Training



- Teacher
- Child Care Director
- Human Resource Trainer
- College/University Professor



**9th Grade:** English, Algebra I, Earth Science, World History/Geography, Child Development & Parenting

**10th Grade:** English, Geometry, Biology, World History/Geography, Introduction to Early Childhood, Education, & Services

**11th Grade:** English, Algebra II, Chemistry, US/VA History, Virginia Teachers for Tomorrow I

**12th Grade:** English, Advanced Math, Physics, US/VA Government, Virginia Teachers for Tomorrow II

**Other Required Courses/Recommended Electives (Grades 9 - 12):** Economics & Personal Finance, Health & PE (2 yrs), Foreign Language (3 yrs), Other Electives to Complement Pathway

**Hospitality & Tourism:**

- Travel and Tourism
- Restaurants & Food and Beverage Services



- Convention Services Mgr.
- Marketing/Advertising
- Director of Tourism
- Events/Planner Manager
- Tour/Travel Guide
- Travel Agent
- Caterer
- Restaurant Owner
- Baker



**9th Grade:** English, Algebra I/Geometry/Algebra II, Earth Science, World History/Geography, Nutrition & Wellness or Introduction to Hospitality, Tourism, & Recreation

**10th Grade:** English, Geometry/Algebra II/Trigonometry/Pre-Calculus, Biology, World History/Geography, Introduction to Marketing or Introduction to Culinary Arts

**11th Grade:** English, Algebra II/Trigonometry/Pre-Calculus/Calculus, Chemistry, US/VA History, Hotel Marketing or Culinary Arts II

**12th Grade:** English, Trigonometry/College Algebra/Calculus/Differential Equations, Physics, US/VA Government, Advanced Marketing or Culinary Arts III

**Other Required Courses/Recommended Electives (Grades 9 - 12):** Economics & Personal Finance, Health & PE (2 yrs), Foreign Language (3 yrs), Other Electives to Complement Pathway

**Manufacturing:**

- Health, Safety, and Environmental Assurance
- Production
- Manufacturing Production Process Development



- Environmental Engineer
- Health & Safety Representative
- Safety Coordinator
- Safety Team Leader
- Maintenance Technician
- Millwright
- Sheet Metal Worker
- Machine Operator
- Graphic Designer
- Tool Die Maker
- Engineer



**9th Grade:** English, Algebra I/Geometry/Algebra II, Earth Science, World History/Geography, Manufacturing Systems, Construction Technology, or Technical Drawing & Design

**10th Grade:** English, Geometry/Algebra II/Trigonometry/Pre-Calculus, Biology, World History/Geography, Materials & Processes, Architectural Drawing & Design or Welding I

**11th Grade:** English, Algebra II/Trigonometry/Pre-Calculus/Calculus, Chemistry, US/VA History, Manufacturing Systems, Manufacturing Technology, Engin. Drawing, or Welding II

**12th Grade:** English, Trigonometry/College Algebra/Calculus/Differential Equations, Physics, US/VA Government, Production Systems, Power & Transportation, Adv. Drawing & Design, Welding III

**Other Required Courses/Recommended Electives (Grades 9 - 12):** Economics & Personal Finance, Health & PE (2 yrs), Foreign Language (3 yrs), Other Electives to Complement Pathway

Arts, A/V Technology & Communications:

◦ Performing Arts



- **Dancer**
- **Choreographer**
- **Composer/Conductor**
- **Performer**
- **Actor**
- **Costume Designer**
- **Director**
- **Film/Video Editor**
- **Makeup Artist**
- **Playwright**
- **Scenic/Set Designer**
- **Screenwriter**



**9th Grade:** English, Geometry, Earth Science, World History/Geography I, Technical Drawing & Design, Computer Information Systems

**10th Grade:** English, Algebra II, Biology, World History/Geography II, Materials & Processes, Architectural Drawing & Design, Exploring Entrepreneurship, Carpentry I

**11th Grade:** English, Advanced Mathematics, Chemistry, US/VA History, Business Management or Carpentry II

**12th Grade:** English, Mathematical Analysis/ Pre-Calculus, Physics or Principles of Technology I & II, US/VA Government, Carpentry III

**Other Required Courses/Recommended**

**Electives (Grades 9 - 12):** Economics & Personal Finance, Health & PE (2 yrs), Foreign Language (3 yrs), Band, Chorus, Guitar, or Theatre