



# Open House

Fall 2017

[coderva.org](http://coderva.org) | [@CodeRVA1](https://twitter.com/CodeRVA1) | [facebook.com/coderva](https://facebook.com/coderva)

# Agenda

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- Goals
- Curriculum and Instruction
  - Blended Learning
  - Content Integration
- Project-Based Learning
- Calendar
- Associate's degree
- Extended internships
- Location and Transportation
- Application process

# CodeRVA's Goals

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- Redesign the high school experience to better meet the needs of today's students;
- Address inequities in STEM-related education; and
- Increase the pool of potential employees in computer science-related fields



# Rethinking High School

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- Leveraging technology to accelerate learning through blended and project-based learning
- Providing students with additional opportunities (associate's degree, extended internships, industry certifications)
- Preparing students for college and careers in computer science and coding
- Promoting equity in opportunity in STEM education

# Integrated Coursework

## Global Studies\*

### English 9 Objectives

- 9.1 make presentations individually and in small groups
- 9.2 Produce, analyze, and evaluate media messages
- 9.3 apply word origins, derivations, and figurative language to extend vocabulary in authentic texts

### World Geography Objectives

- WG.1 The student will use maps, globes, satellite images, photographs, or diagrams to...
- WG.2 The student will analyze how selected physical and ecological processes shape the Earth's surface by...

\* Not a complete listing of all objectives within Global Studies

Upon successful completion of Global Studies, students will meet state graduation requirements for both English 9 and World History II.

# Blended Learning

## Course Content Objectives

### Online Learning

- Simulations
- Animations
- Tutorials
- Discussions
- Video
- Practice

*self-paced,  
self-directed*

### Face-to-Face Learning

- Instruction
- Support
- Seminar
- Lab Work
- Project-Based Learning (PBL)

*Individual and  
small group*

Monitoring Progress and  
Assessing Understanding and Achievement

Enrichment and Support  
Individual and Small Group

# Instructional Delivery Modes



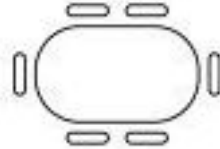
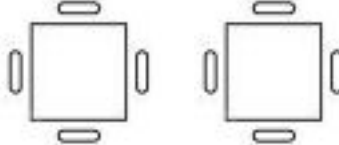
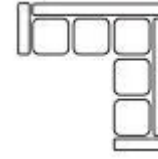
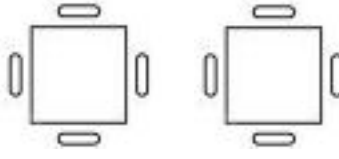
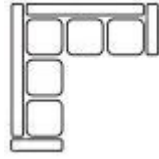
Support



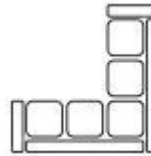
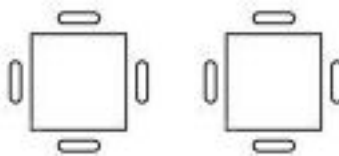
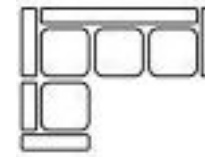
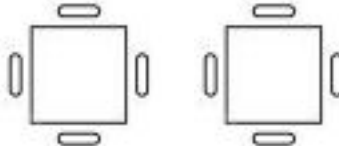
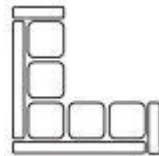
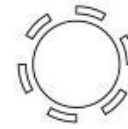
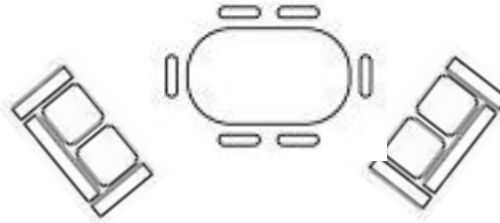
PBL



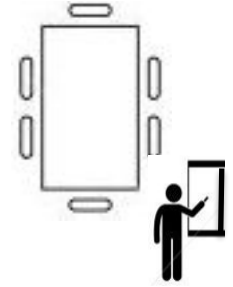
Student PBL



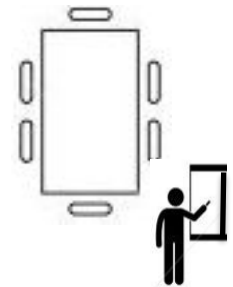
Collaborative/Open Workspace



Instruction

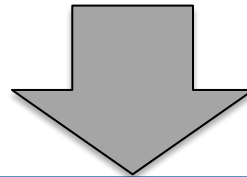
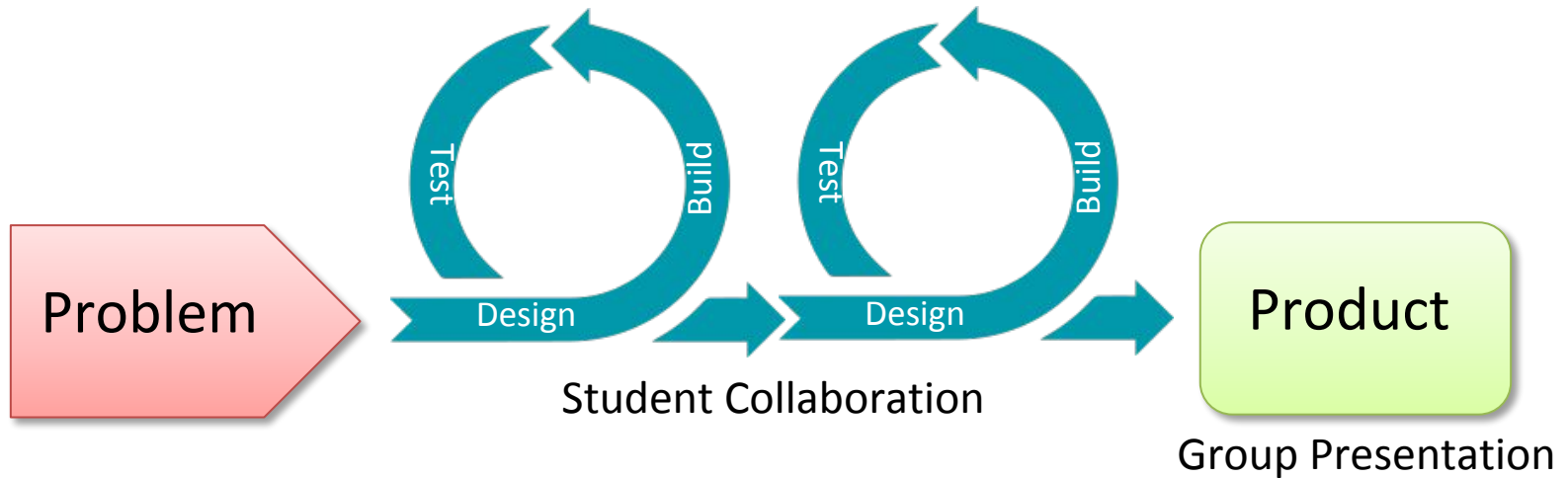


Seminar

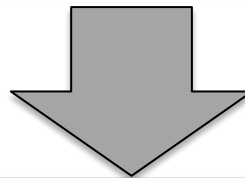


Lab Work

# Project-Based Learning (PBL)



**Rubric-Based Assessment**  
Content, Critical Thinking, Collaboration, Communication, Creativity



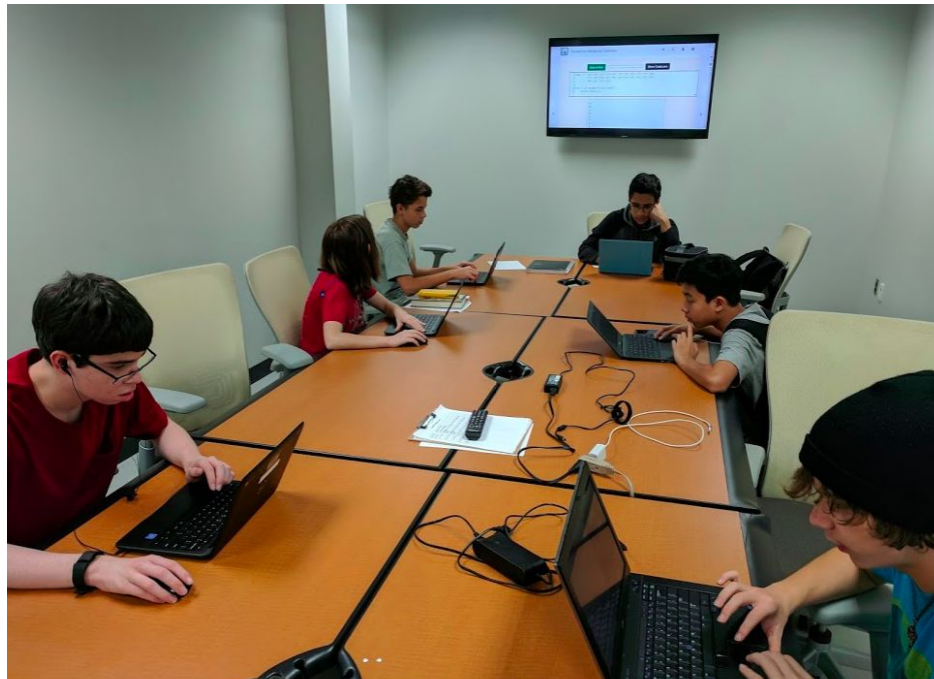
**Enrichment and Support**  
Individual and Small Group



# Workplace Methodology

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- Scheduling/productivity tools and practices
- Testing iterations and continuous improvement - failing early, learning from mistakes, editing and improving, resubmission
- Focus on problem solving, critical thinking, effective communication, collaboration, confidence, and creativity



# Morning Meetings

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- Announcements
- Daily lunch order
- Reminders and procedures
- Opportunities
- Daily area of focus
  - goal setting
  - career exploration
  - addressing social-emotional needs
  - current events
  - culture development and character-building
  - financial planning and
  - much more!!



# College Credit Options and Internships

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## Associate's Degree

- Associates of Science with a Specialization in Computer Science (62 credits)
- J. Sargeant Reynolds CC (online and face-to-face)
- Up to 240 hours of paid internships

## Applied Concentration

- ~24 college credits in English, History, and other courses including Computer Science and applied electives
- J. Sargeant Reynolds CC and other sources for elective courses (online and face-to-face)
- Up to 400 hours of paid internships

# Internships

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- MAXX Potential – coordinating internships
- Experiences in a variety of areas
  - Quality Assurance and Application Testing
  - Front-end Web and Mobile App Development
  - IT Operations - Network Monitoring, Incident Response, Security Support and Administration
  - Software Maintenance and Support
  - Data Transformation and Content Migrations

# Year-round School

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- Three Trimesters
  - Trimester 1 = Traditional high school's 1st semester
  - Trimester 2 = Traditional high school's 2nd semester
  - Trimester 3 = 6 weeks during summer (July 9-August 16, 2018)

We will offer flexibility in physical attendance during the summer if progress targets are consistently being met

# Location and Transportation

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- Within 5 minutes of Maggie L. Walker Governor's School
- Transportation provided at no cost - shared with Maggie L. Walker Governor's School



# Eligibility

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Students that apply

- ❖ must be eligible for enrollment in grade 9 in 2018-2019;
- ❖ must be a resident of a participating school division;
- ❖ should have an interest in and passion for computer science; and
- ❖ should be interested in developing their self-management skills and independence in learning, critical thinking, and problem solving.

No academic requirements necessary to apply.

# Application Timeline

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- Application available [coderva.org/apply](https://coderva.org/apply)
- Application window opens on January 8, 2018
- Application window closes on February 23, 2018
- Student selection through an independently-operated lottery system
- Selected students notified on March 9, 2018
- Students identify their intent to attend by March 23, 2018