Guilford County Schools
Career and Technical Education: Learning for College And Careers

November 2018
Mission

Guilford County students will graduate as responsible citizens prepared to succeed in higher education, or in the career of their choice.*

*This mission was adopted by the Guilford County Board of Education on December 12, 2000.

Vision

Transforming learning and life outcomes for all students.
Agenda

- Context
- Current State of GCS CTE
- National Examples
- GCS’s CTE Shift
- Recommendations & Considerations
- Discussion
Currently, 75% of local companies have difficulty staffing important and necessary positions.
# Call For Change

## Superintendent’s Transition Team Findings

- High CTE participation
- Breadth of offerings
- Lack of clearly defined and articulated career pathways
- Certain CTE courses aligned to low-skill jobs
- Not all CTE courses relevant or rigorous
- Students don’t have equitable access to CTE courses
- CTE pathway completion rate is low
- CTE pathways not necessarily aligned with region’s growing industry sectors

## Blue Ribbon Task Force Recommendations

- Provide more student choice, equity & access to high-quality CTE programming
- Provide students with multiple CTE programs of study PK-12
- Increase CTE pathways aligned with labor market demand
- Partner with external/internal partners to provide CTE students access to continuing education & first careers
- Establish a Business Advisory Council
- Conduct review & plan for school construction, renovations, or redesign
Ignite Learning Strategic Plan 2018-2022

Goal III: By 2022, the percentage of graduating seniors who complete a rigorous career pathway will increase to 35 percent.

2016-17 Baseline: 27.9%
# Current State of GCS Career & Technical Education

<table>
<thead>
<tr>
<th>GOAL III:</th>
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<th>GOAL III:</th>
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</thead>
<tbody>
<tr>
<td>Career Pathway Concentrators</td>
<td>Career Pathway Concentrators</td>
<td>Career Pathway Concentrators</td>
</tr>
<tr>
<td>Enrollment</td>
<td>Performance</td>
<td>College Enrollment</td>
</tr>
</tbody>
</table>
Career Pathway Concentrator Definition

- A Career Pathway Concentrator is a student who has earned four or more technical credits in a Career Cluster with at least one being a completer course from the cluster.

ACT WorkKeys

- Students who are seniors in the given year and are identified as current or expected CTE concentrators take ACT WorkKeys.

- ACT WorkKeys provides a gauge of career readiness and is widely recognized as an industry credential. Results are reported for the number of seniors who participated and the number who were proficient (earned Silver, Gold, or Platinum certificate).
2017-18 Grade 11 Potential Career Pathway Concentrators
By Race-Ethnicity & Gender

<table>
<thead>
<tr>
<th></th>
<th>Male</th>
<th>Black</th>
<th>Hispanic</th>
<th>White</th>
<th>All Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Students</td>
<td>64.0</td>
<td>68.9</td>
<td>67.6</td>
<td>57.9</td>
<td>64.2</td>
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<tr>
<td>Female</td>
<td>56.0</td>
<td>70.0</td>
<td>58.1</td>
<td>60.4</td>
<td>53.2</td>
</tr>
</tbody>
</table>
## 2017-18 Grade 12 Potential Career Pathway Concentrators
### By Race-Ethnicity & Gender

<table>
<thead>
<tr>
<th></th>
<th>Male</th>
<th>Female</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Students</td>
<td>31.8</td>
<td>28.5</td>
<td>34.6</td>
<td>35.4</td>
</tr>
<tr>
<td>Black</td>
<td>34.6</td>
<td>35.4</td>
<td>31.3</td>
<td>34.9</td>
</tr>
<tr>
<td>Hispanic</td>
<td>31.3</td>
<td>19.3</td>
<td>34.9</td>
<td>26.6</td>
</tr>
<tr>
<td>White</td>
<td>29.3</td>
<td>19.3</td>
<td>31.4</td>
<td>31.4</td>
</tr>
<tr>
<td>All Others</td>
<td>31.4</td>
<td>26.6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

% Enrolled

---

[Graph showing the percentage of enrolled students by race, ethnicity, and gender.]
### CTE Concentrators Who Took ACT WorkKeys By Race-Ethnicity

<table>
<thead>
<tr>
<th>CTE Concentrators</th>
<th>2016-17</th>
<th>2017-18</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># Students</td>
<td>%</td>
</tr>
<tr>
<td>All Students</td>
<td>1,474</td>
<td>100.0%</td>
</tr>
<tr>
<td>Black</td>
<td>710</td>
<td>48.2%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>167</td>
<td>11.3%</td>
</tr>
<tr>
<td>White</td>
<td>420</td>
<td>28.5%</td>
</tr>
<tr>
<td>All Others</td>
<td>177</td>
<td>12.0%</td>
</tr>
</tbody>
</table>
## CTE Concentrators with ACT Scores

<table>
<thead>
<tr>
<th>Group</th>
<th>2016-17</th>
<th></th>
<th>2017-18</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># of Students</td>
<td>%</td>
<td># of Students</td>
<td>%</td>
</tr>
<tr>
<td>Black</td>
<td>668</td>
<td>47.9%</td>
<td>646</td>
<td>44.2%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>155</td>
<td>11.1%</td>
<td>183</td>
<td>12.5%</td>
</tr>
<tr>
<td>White</td>
<td>402</td>
<td>28.8%</td>
<td>480</td>
<td>32.8%</td>
</tr>
<tr>
<td>All Others</td>
<td>170</td>
<td>12.2%</td>
<td>154</td>
<td>10.5%</td>
</tr>
<tr>
<td>Total</td>
<td>1395</td>
<td>100%</td>
<td>1463</td>
<td>100%</td>
</tr>
</tbody>
</table>
# 2016-17 CTE Concentrators By Race-Ethnicity

<table>
<thead>
<tr>
<th>Students</th>
<th># of Students</th>
<th>% of Students</th>
<th>District Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>757</td>
<td>49.0%</td>
<td>40.9%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>171</td>
<td>11.1%</td>
<td>16.4%</td>
</tr>
<tr>
<td>White</td>
<td>438</td>
<td>28.3%</td>
<td>31.2%</td>
</tr>
<tr>
<td>All Others</td>
<td>180</td>
<td>11.6%</td>
<td>11.5%</td>
</tr>
<tr>
<td>Total</td>
<td>1,546</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>
## What’s Happening Nationally:

<table>
<thead>
<tr>
<th>Mobile County, Alabama</th>
<th>Gwinnett County, Georgia</th>
<th>Davidson County, Tennessee</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Started career academies over 10 years ago</td>
<td>- Transformation model—converting 7 comprehensive high schools into career-themed academy high schools</td>
<td>- Started career themed schools over 10 years ago</td>
</tr>
<tr>
<td>- Grades 10-12</td>
<td>- 12 comprehensive high schools that are wall to wall academy schools</td>
<td>- 12 learning zones each with a wall to wall career academies</td>
</tr>
<tr>
<td>- Choice schools</td>
<td></td>
<td>- Grades 9-12</td>
</tr>
<tr>
<td>- 12 comprehensive high schools</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Traverse Bay Area Intermediate School District Career-Tech Center, MI | Desert View High School, AR Precision Machining & Mechanical Drafting | Sam Houston High School, TX Cyber Pathways in Technology to Early College |
New Rules

The kind of education our students need for today’s economy has changed.

Schools now must prepare students for “new collar” jobs we know little about or that have not yet been created.
Current Structure
Breadth over Depth

New Structure
Depth over Breadth

PARADIGM SHIFT FOR GCS CAREER & TECHNICAL EDUCATION
Recommendations From:

- Superintendent Contreras’ 2016-2017 Transition Report on Student Achievement
- 2018 Triad Talent Alignment Study
- 2017-2018 Blue Ribbon Task Force

Outcome:

- GCS CTE Five-Year Work Plan Proposal
PROPOSED CTE Program Design
Awareness
Exploration
Preparation
CTE Expansion

Awareness
• Pre-K through Grade 5
  • Exposure to careers
  • Introductory classes such as coding

Exploration
• Grade 6 through Grade 8
  • Exploratory classes
  • STEM classes
  • Computer Science
  • Student Interest Inventory Survey
  • Career Exploration

Preparation
• Grades 9 through College
  • Focused career pathway courses
  • Job shadows
  • Industry certifications
  • Advanced academics/dual enrollment
  • Internships & Apprenticeships

Computer Science & College/Career Advisement--Pre-K through 12
Rigorous Programs of Study

Aligned and integrated 9-14(+) career pathways

Increased number of skilled, college-ready graduates with industry credentials

State and regional talent pipelines in key industry sectors

Academics

Secondary Pathways

Postsecondary Pathways

Stackable Credentials ➔

AA/AAS ➔

BA/BS ➔

Career Tech

Internship

WBL

Entry Skilled Jobs

Middle Skilled Jobs

Advanced Skilled Jobs

Acceleration & College/Career Readiness through Dual Enrollment, Integrated Instruction, and WBL

Academics

Rigorous Programs of Study
Signature Advanced Career Academies

- Small learning community (up to 400 students)
- Supportive structure
- Selected during 8th grade “HS Options” application season
- Five–element instructional approach
Wall to Wall Advanced “CTE” Academies

- Entire school is comprised of small learning communities
- Supportive structure in each academy
- Selected during 8th grade “HS Options” application season
- Five–element instructional approach

Signature Advanced Career Academy
Signature Advanced Career Academy
P-TECH Model Advanced Career Academies

- Driven by industry partnership leading to HS diploma, associate degree & guaranteed job
- Supportive structure in each academy
- Selected during 8th grade “HS Options” application season
- Five–element instructional approach
Middle and Early College High Schools Revitalization

- Small learning environments on a partner college campus
- Selected during 8th grade “HS Options” application season
- Select a major from partner college campus options and apply for the 9th – 12/13th grade program
- Cohort scheduling; emphasis on dual credit, industry certifications, and degree completion
Traditional High School CTE Programs

- Select CTE elective course options
- Business & Computer Science CTE courses at all traditional campuses (2018-19)
- At least one school-selected priority pathway that does not compete with career pathways at the Signature Academies
- Program of Studies to promote completion within the selected CTE cluster
Examples of Feeder Patterns

2019-20

- In discussion to add grades 6-8, beginning with grade 6, to the STEM Early College HS @ NC A&T and Middle College HS @ NC A&T

- Shift Early Education Teacher Prep pathway at Dudley HS to Urban Education focused on middle and high school teacher preparation

2020-21

- Shift at least two STEM magnet foci to Artificial Intelligence

- Create (2) K-8 Computer Science schools
Signature Advanced Career Academies
Target Sectors

Manufacturing and Production
Health and Biomedical
STEM
Professional and Financial Services
Information Technology (Cyber Security)
Skilled Trades
GATEWAY TO POST-SECONDARY EDUCATION

Sample Scope & Sequence

GCS High School Diploma
Urban Engineering Academy
Career Pathway: Civil Engineering
Industry Certification: Autodesk AutoCAD

Guilford Technical Community College Associate in Engineering for students planning to complete a four-year engineering degree program

Transfer for Bachelors at: NC State University, UNC-Charlotte, East Carolina University, NC A&T University, Western Carolina or Other out-of-state university

College & Career Ready
Signature Advanced Career Academies at Traditional High Schools

Target Sector: STEM Manufacturing and Production

Academy of Advanced Manufacturing

Major: Integrated Production Technology

Sample Courses:
- AC* ADVANCED TECH FOR DESIGN AND PRODUCTION
- SYSTEMS OF ADVANCED TECHNOLOGY
- MECHATRONICS
- DESIGN FOR PRODUCTION OF ADVANCED PRODUCTS

RECOMMENDED CREDENTIAL: Certified Production Technician – Quality, Safety, Process & Maintenance

*AC—Advanced Career

Major: Mechanical Engineering

Sample Courses:
- PLTW** INTRO TO ENGINEERING DESIGN
- PLTW PRINCIPLES OF ENGINEERING
- PLTW COMPUTER INTEGRATED MANUFACTURING
- PLTW ENGINEERING DESIGN AND DEVELOPMENT

RECOMMENDED CREDENTIAL: OSHA 10 Industry Certification (General)
Autodesk Inventor

*AC—Advanced Career

**PLTW—Project Lead The Way
Target Sector: Health and Biomedical

Academy of Biomedical Technology

**Major: Emergency Medical Technology**

**Sample Courses:**
- PLTW PRINCIPLES OF BIOMEDICAL SCIENCE
- PUBLIC SAFETY
- EMERGENCY MEDICAL TECHNOLOGY

**Recommended Certification:**
National Incident Management System
EMT Basic

**Major: Biomedical Technology**

**Sample Courses:**
- PLTW PRINCIPLES OF BIOMEDICAL SCIENCE
- PLTW HUMAN BODY SYSTEMS
- MEDICAL INTERVENTIONS
- BIOMEDICAL INNOVATIONS

**Recommended Certification:**
OSHA 10-Hour Industry Certification (Healthcare)
Signature Advanced Career Academies at Traditional High Schools

Target Sector: Professional and Financial Services

Academy of Business Management and Accounting

- Major: Business Management
  - Sample Courses:
    - PRINCIPALS OF BUSINESS AND FINANCE
    - PROJECT MANAGEMENT
    - BUSINESS MANAGEMENT
    - BUSINESS LAW
    - BUSINESS FINANCIAL PLANNING
  - RECOMMENDED CERTIFICATION: EverFi

- Major: Accounting
  - Sample Courses:
    - PRINCIPALS OF BUSINESS AND FINANCE
    - STRATEGIC MARKETING
    - ACCOUNTING
    - ADV ACCOUNTING
  - RECOMMENDED CERTIFICATION: Intuit QuickBooks Certified User
Signature Advanced Career Academies at Traditional High Schools

Target Sector: STEM Manufacturing and Production

Academy of Clean Energy Technologies

Major: Clean Energy

Sample Courses:
- AC Clean Energy Systems
- AC Clean Energy Applications
- AC Clean Energy Strategies
- AC Clean Energy Innovations

RECOMMENDED CERTIFICATION: ETA-International Renewable Energy

Major: Energy and Power

Sample Courses:
- Energy and Power Foundations
- Energy Transmission and Distribution
- Electronics and Control Systems
- Advanced Science and Engineered Systems

RECOMMENDED CERTIFICATION: ETA-International Renewable Energy
Signature Advanced Career Academies at Traditional High Schools

Target Sector: Information Technology Manufacturing

Academy of Computer Science

**Major: Software Engineering**

- PLTW COMPUTER SCIENCE ESSENTIALS
- AC COMPUTERS, NETWORKS, & DATABASES
- AP COMPUTER SCIENCE A/B
- SAS COMPUTER PROGRAMMING I & II

**Sample Courses:**
- PLTW COMPUTER SCIENCE ESSENTIALS
- AC COMPUTERS, NETWORKS, & DATABASES
- AP COMPUTER SCIENCE A/B
- NETWORK ADMINISTRATION I & II
- CISCO NETWORK ENGINEERING

**Recommended Credentialed:**
- CompTia A+
- SAS Base Prog for SAS 9
- SAS Adv Prog for SAS 9

**Major: Network Admin & Engineering**

**Sample Courses:**
- PLTW COMPUTER SCIENCE ESSENTIALS
- AC COMPUTERS, NETWORKS, & DATABASES
- AP COMPUTER SCIENCE A/B
- NETWORK ADMINISTRATION I & II
- CISCO NETWORK ENGINEERING

**Recommended Credentialed:**
- MicroSoft MTA
- CISCO

**Major: Artificial Intelligence**

**Sample Courses:**
- To Be Developed With Partners

**Recommended Credentialed:**
- To Be Determined with Industry Partners
Signature Advanced Career Academies at Traditional High Schools

Target Sector: Professional and Financial Services

Academy of Entrepreneurship and Virtual Enterprise

Major: Entrepreneurship

Sample Courses:
- PRINCIPALS OF BUSINESS AND FINANCE
- MARKETING
- BUSINESS MANAGEMENT
- STRATEGIC MARKETING
- ENTREPRENEURSHIP

RECOMMENDED CREDENTIAL:
EverFi – Venture Entrepreneurial Expedition

Major: Virtual Enterprise

Sample Courses:
- MARKETING
- BUSINESS MANAGEMENT
- STRATEGIC MARKETING
- VIRTUAL ENTERPRISE

RECOMMENDED CREDENTIAL:
To be determined with Industry Partners
Signature Advanced Career Academies at Traditional High Schools

Target Sector: Skilled Trades

Academy of Green Construction and Skilled Trades

**Major: Green Construction Technology**
- Sample Courses:
  - DRAFTING
  - NATURAL RESOURCE CORE & SUSTAINABLE CARPENTRY
  - ADV CARPENTRY

**Major: Electrical Wiring and Construction**
- Sample Courses:
  - DRAFTING
  - NATURAL RESOURCE CORE & SUSTAINABLE CARPENTRY
  - ELECTRICAL TRADES

**Major: Heating, Ventilation and Air Conditioning**
- Sample Courses:
  - DRAFTING
  - NATURAL RESOURCE CORE & SUSTAINABLE CARPENTRY
  - HVAC

**Major: Geospatial Technology**
- Sample Courses:
  - To Be Developed With Partners

**Recommended Credentials:**
- NCCER
- Autodesk AutoCAD
- OSHA 10-Hour (Construction)
- To Be Determined with Industry Partners
Signature Advanced Career Academies at Traditional High Schools

Target Sector: Skilled Trades

Academy of Public Safety

- Major: Fire Prevention & Safety Technology
  - Sample Courses:
    - PUBLIC SAFETY I, II
    - NC FIREFIGHTER TECH I, II
    - EMERGENCY MANAGEMENT
  - Recommended Credentials:
    - National Incident Management System NCOSFM

- Major: Emergency Medical Technology
  - Sample Courses:
    - EMERGENCY MEDICAL TECH I, II
    - PRINCIPLES OF BIOMEDICAL SCIENCE
    - HUMAN BODY SYSTEMS
  - Recommended Credentials:
    - EMT Certificate

- Major: Law Enforcement
  - Sample Courses:
    - PUBLIC SAFETY I, II
    - LAW & JUSTICE I, II
    - EMERGENCY MANAGEMENT
  - Recommended Credentials:
    - National Incident Management System Certification

- Major: Cyber Security & Digital Forensics
  - Sample Courses:
    - PLTW COMPUTER SCIENCE ESSENTIALS
    - AC COMPUTERS, NETWORKS, & DATABASES
    - AP COMPUTER SCIENCE A/B
    - DIGITAL FORENSICS
    - PLTW CYBERSECURITY
  - Recommended Credentials:
    - To Be Determined with Industry Partners
Signature Advanced Career Academies at Traditional High Schools

Target Sector: Skilled Trades Professional Services

Academy of Transportation, Distribution and Logistics

Major: Transportation, Distribution and Logistics

Sample Courses:
- PROJECT MANAGEMENT
- LOGISTICS
- INVENTORY AND WAREHOUSING
- PRINCIPLES OF DISTRIBUTION & LOGISTICS

RECOMMENDED CREDENTIAL:
To be determined with Industry Partners
Signature Advanced Career Academies at Traditional High Schools

Target Sector: Information Technology Professional Services

Academy of Simulation and Game Development

**Major:** Simulation and Game Development

*Sample Courses:*
- ADOBE VISUAL
- COMPUTER PROGRAMMING
- MODELING AND ANIMATION
- GAME DESIGN

*RECOMMENDED CREDENTIALS:*
- Autodesk 3ds Max
- ADOBE

**Major:** Entertainment Marketing

*Sample Courses:*
- PRINCIPLES OF BUSINESS
- GAME DESIGN
- BUSINESS MANAGEMENT
- ENTERTAINMENT MARKETING

*RECOMMENDED CREDENTIAL:*
- A*S*K Business Institute – Fundamental Marketing Concepts
Signature Advanced Career Academies at Traditional High Schools

Target Sector: STEM

Academy of Urban Engineering

Major: Civil Engineering

Sample Courses:
- PLTW INTRO TO ENGINEERING DESIGN
- PLTW PRINCIPLES OF ENGINEERING
- PLTW CIVIL ENGINEERING
- PLTW ENGINEERING DESIGN & DEVELOPMENT

RECOMMENDED CREDENTIAL:
- Autodesk Inventor
- Autodesk AutoCAD
- OSHA 10-Hour (General)

Major: Environmental Engineering

Sample Courses:
- PLTW INTRO TO ENGINEERING DESIGN
- PLTW PRINCIPLES OF ENGINEERING
- PLTW CIVIL ENGINEERING
- PLTW ENVIRONMENTAL SUSTAINABILITY

RECOMMENDED CREDENTIAL:
- Autodesk Inventor
- Autodesk AutoCAD
- OSHA 10-Hour (General)
Advanced Career Academies at Traditional High Schools

Target Sector: STEM

Academy of Urban Agriscience

Major: Urban Agriscience

Sample Courses:
- AGRISCIENCE APPLICATIONS
- FOOD SCIENCE TECH
- NATURAL RESOURCES I, II
- AQUACULTURE I, II

RECOMMENDED CREDENTIAL: To be determined with Industry Partners
EXAMPLE ACADEMIES

The School of Pharmacy and Specialized Healthcare
  1. Pharmacy Technology
  2. Human Health Technology
  3. Mental Health Technician

Advanced Computer and Information Science
  1. Cybersecurity and Digital Forensics
  2. Informatics

National Academy Foundation (NAF) Academies
High School:
  1. NAF Academy of Information Technology
  2. NAF Academy of Finance
  3. NAF Academy of Health Sciences

Public Safety High School:
  1. Fire Prevention & Safety Technology
  2. Emergency Medical Technology
  3. Law Enforcement
  4. Forensic Science
  5. Cyber Security & Digital Forensics
Potential Innovative PTECH-models

Career Academies with Guaranteed Job Opportunities

Proposed Academy of Advanced Health Sciences and Specialized Healthcare
(non-traditional facility; seeking partnership with local/regional healthcare organizations)

Proposed Advanced Manufacturing
(non-traditional facility; seeking partnerships with local/regional manufacturing companies)

Other Proposed Programs in STEM
(non-traditional facilities; seeking partnerships with local/regional industries)
Collaborative Planning for Informed Decision-Making
### TIMELINE

**Now-Spring 2019**

- Conduct school level assessment of CTE programs
- Reorganize CTE Programs at traditional high schools
- Conduct needs assessments including student interest inventories
- Conduct facility walkthroughs
- Add to School Choice Offerings
- Determine Signature Academy and Wall to Wall Academy assignments
- Complete development of the Program of Studies
- Realign CTE Staffing
- Recruit CTE teachers

**SY 2019-20**

- Implement at least 4 new Signature Academies **CA1**
- Train Educators & School/District Leaders on new CTE model
- Start teacher training on new curriculum
- Collaborate with partners on new curriculum development
- Enroll students in career pathways @ traditional HS
- Add Signature Academies to the Choice Showcase
- Continue exploration and development of alternative school models
- Recruit CTE teachers

**SY 2020-21**

- Welcome **CA2**
- Implement all new Signature Academies, Wall to Wall Academies & new alternative school models—**CB1**
- Continue professional development for school staff & leadership
- Continue development and support of new academy pathways
- Continue development of alternative school models
- Formalize accountability system in alignment with Perkins requirements
- Recruit CTE teachers

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All Phases are to be completed in collaboration with and engagement of all stakeholders as appropriate. Communication & information sharing will start immediately and will be on-going. We will ONLY phase in one grade (grade 9) at a time while phasing out old programs.
**TIMELINE**

**PHASE IV**
SY 2021-2022

*Welcome CA3 & CB2
*Monitor and assess for quality and sustainability
*Realign as needed with local labor market data
*Continue professional development for school staff & leadership
*Continue partnership development with colleges and industry partners
*Continue exploration and development of alternative school models

**PHASE V**
SY 2022-23

*Welcome CA4 & CB3
*CA1 Graduation
*Monitor and assess for quality and sustainability
*Continue professional development for school staff & leadership
*Continue partnership development with colleges and industry partners
*Continue exploration and development of alternative school models

**PHASE VI**
SY 2023-24

*Welcome CB4
*Welcome Cohort B2
*CB1 Graduation
*Monitor and assess for quality and sustainability
*Realign as needed with local labor market data
*Continue professional development for school staff & leadership
*Continue partnership development with colleges and industry partners

All Phases will be funded by CTE budget, grants & any additional funding and resources provided by industry/community partners.
## Next Steps:

<table>
<thead>
<tr>
<th>Recommendations</th>
<th>Considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Begin Phase II: Planning</td>
<td>Work Plan</td>
</tr>
<tr>
<td>Start 4-6 Signature Academies to start Fall 2019 including 2 for Advanced Manufacturing (part of legislative ask)</td>
<td>Facilities&lt;br&gt;Current CTE programs&lt;br&gt;Geographic location</td>
</tr>
<tr>
<td>All Signature Academies to be choice options</td>
<td>Location of academies; duplicate if high interest &amp; lowers cost of transportation</td>
</tr>
<tr>
<td>Explore transportation options</td>
<td>Cost</td>
</tr>
<tr>
<td>Add grades 6-8 to STEM Early College &amp; Middle College High Schools at NC A&amp;T</td>
<td>Space availability at NC A&amp;T&lt;br&gt;Legislative approval of expanding CIHS to secondary</td>
</tr>
<tr>
<td>Create 2 new K-8 Computer Science Schools</td>
<td>Convert 2 existing magnet elementary/middle schools</td>
</tr>
<tr>
<td>Convert 1 middle school magnet theme to Artificial Intelligence</td>
<td>Partnerships &amp; funding</td>
</tr>
</tbody>
</table>
Discussion