Welcome

CTAE Leaders
Winter Conference
2012
Georgia’s College and Career Ready Clusters

“Making Education Work for All Georgians”
House Bill 186

• During the 2011 legislative session the Georgia General Assembly passed House Bill 186

• House Bill 186 mandates that Georgia will align with the 16 Federal Career Cluster framework

• Georgia is adding a 17th Cluster: Energy Systems

• All courses shall include embedded academic standards
Why Career Clusters?

A Career Cluster is a tool for a seamless educational system that:

• blends rigorous academic/technical preparation
• provides career development
• offers options for students to experience all aspects of a business or industry
• facilitates/assists students and educators with ongoing transitions
What Are The 17 Clusters?

Agriculture, Food & Natural Resources
Architecture & Construction
Arts, Audio/Video Technology & Communications
Business Management & Administration
Education and Training
Energy Systems
Finance
Government & Public Administration
Health Science
What Are The 17 Clusters?

Hospitality & Tourism
Human Services
Information Technology
Law, Public Safety, Corrections & Security
Manufacturing
Marketing
Science, Technology, Engineering & Mathematics
Transportation, Distribution & Logistics
Why Integrate Academics (Common Core) Within CTAE?

The Common Core Curriculum Provides:

- Rigorous knowledge and skills needed to succeed in college and/or careers
- Consistent expectations across states for all students
- Relevant content and application of knowledge through high-order thinking skills
- Clear, focused expectations that assist educators in being on the same page
The Aging Workforce

• The baby boomers are leaving America’s workforce. Approximately 10,000 will turn 65 every day for the next 19 years.

• CTAE is preparing a highly-skilled sustainable workforce that America’s business and industry need to remain globally competitive.
What Are Current Workforce Needs?

Business and Industry partners have indicated that workers need:

- Academic and technical skills
- Strong work ethics
- Job ready soft skills
- Real world work experiences
- Problem solving skills
Why Pathways?

Career Pathways are sub-groupings of occupations and career specialties used as an organizing tool for curriculum design and instruction.

Career Pathways focus on easing and facilitating student transition from high school to work, technical college or a traditional college.
What Are Examples Of Pathways?

Cluster:
Law, Public Safety, Corrections, and Security

Pathways:
Correction Services
Emergency and Fire Services
Security and Protective Services
Law Enforcement Services
Legal Services
What Are Examples Of Pathways?

[Diagram showing pathways and courses]

- Corrections Services
  - Introduction to Law, Public Safety, Corrections and Security
  - Applications of Corrections and Security
  - Work-Based Learning
- Emergency and Fire Services
  - Introduction to Law, Public Safety, Corrections and Security
  - Homeland Security
  - Emergency Services
  - Firefighting
  - Emergency Medical Responder
  - 911 Dispatchers
  - Work-Based Learning
- Security and Protective Services
  - Introduction to Law, Public Safety, Corrections and Security
  - Homeland Security
  - Emergency Services
  - Firefighting
  - Emergency Medical Responder
  - 911 Dispatchers
  - Work-Based Learning
- Law Enforcement Services
  - Introduction to Law, Public Safety, Corrections and Security
  - Introduction to Law Enforcement
  - Applications of Law Enforcement
  - Criminal Investigations and Forensics
  - Work-Based Learning
- Legal Services
  - Introduction to Law, Public Safety, Corrections and Security
  - Introduction to Legal Services
  - Application of Legal Services
  - Legal Services Internship
  - Work-Based Learning

Foundation Course
Reviewing Our Existing Curriculum and Pathways

- Seeking industry input and expertise
- Integrating the Common Core standards
- Aligning our courses with the National Assessments and Student Credentialing
- Embeding critical “Soft Skills” in each course
Reviewing our Existing Curriculum and Pathways

• Re-evaluating dual enrollment
• Re-evaluating articulation between DOE, TCSG and USG
• Evaluating academic credit options for CTAE courses
Current Activities

• An Advisory Committee has been formed for each of the 17 clusters
• Committee members include business and industry leaders, administrators, counselors, teachers, etc...
• A State-wide Advisory Committee meeting was conducted on November 30, 2011. Over 350 people attended
Each Individual Cluster Committee Is Addressing The Following Questions
Committee Questions

• Is the ______ cluster a viable option for Georgia’s students?
Committee Questions

- Are the proposed pathways relevant for Georgia’s students?
Committee Questions

• Are the proposed courses in each of the pathways appropriately titled and sequenced?
Committee Questions

• What should the content of the foundation course include?
Committee Questions

• What are the five most important technical skills that a worker in these occupations should possess?
Committee Questions

• What are the five most important soft skills that a worker should possess?
Committee Questions

• Is it important for a student to earn an industry recognized certificate or credential?
Additional Committees

• Assessment – a committee has been formed to review the CTAE assessment program

• Counseling and Advisement – a committee is working on the K-12 model as required by HB 186
What Are Our Next Steps?

• We are continuing to meet with the 17 cluster advisory committees:
  1. Review the standards for the foundation course
  2. Integrate academics “Common Core Performance Standards” into each course
  3. Integrate soft skills into each course

• Teams of educators will soon begin writing the curriculum materials
What Are Our Next Steps?

• We are developing a K-12 counseling and advisement plan that will assist students to learn about as well as select a career focus

We will have three levels of development

• K – 5 – Career Awareness
• 6 – 8 – Career Exploration
• 9 – 12 – Career Development
## Individual Graduation Plan Example

### Graduation Plan:

<table>
<thead>
<tr>
<th>Name:</th>
<th>Class of:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Current Area of Interest:** Health Science/Therapeutic Services (Nursing)

This INDIVIDUAL GRADUATION PLAN can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet learner’s educational potential and career goals.

### Career Pathway:

**Sample Occupations Relating to this Career Pathway:**

<table>
<thead>
<tr>
<th>GRADE</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Math</td>
<td>4 credits</td>
</tr>
<tr>
<td></td>
<td>Science</td>
<td>4 credits*</td>
</tr>
<tr>
<td></td>
<td>Social</td>
<td>3 credits</td>
</tr>
<tr>
<td></td>
<td>Health</td>
<td>4 credits</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>3 elective credits</td>
</tr>
</tbody>
</table>

###Education Levels

<table>
<thead>
<tr>
<th>GRADE</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Math</td>
<td>4 credits</td>
</tr>
<tr>
<td></td>
<td>Science</td>
<td>4 credits*</td>
</tr>
<tr>
<td></td>
<td>Social</td>
<td>3 credits</td>
</tr>
<tr>
<td></td>
<td>Health</td>
<td>4 credits</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>3 elective credits</td>
</tr>
</tbody>
</table>

### Secondary Education Levels

<table>
<thead>
<tr>
<th>GRADE</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Math</td>
<td>4 credits</td>
</tr>
<tr>
<td></td>
<td>Science</td>
<td>4 credits*</td>
</tr>
<tr>
<td></td>
<td>Social</td>
<td>3 credits</td>
</tr>
<tr>
<td></td>
<td>Health</td>
<td>4 credits</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>3 elective credits</td>
</tr>
</tbody>
</table>

### Advanced Placement

<table>
<thead>
<tr>
<th>GRADE</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Math</td>
<td>4 credits</td>
</tr>
<tr>
<td></td>
<td>Science</td>
<td>4 credits*</td>
</tr>
<tr>
<td></td>
<td>Social</td>
<td>3 credits</td>
</tr>
<tr>
<td></td>
<td>Health</td>
<td>4 credits</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>3 elective credits</td>
</tr>
</tbody>
</table>

### Notes:

- Learners who continue their education at one of Georgia’s Public Technical Colleges should prepare to take the COMPASS assessment for admissions to those institutions.
- Learners who continue their education at one of Georgia’s University System 4-year colleges or universities should prepare to take the SAT or ACT for admissions. Check with your selected institution for specific admissions requirements. Georgia’s 2-year colleges do not require the SAT/ACT for admissions.

### Legend:
- Red: Core requirements
- Green: Electives

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Dr. John D. Barge, State School Superintendent

“Making Education Work for All Georgia Students”

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### Individual Graduation Plan Example

The sample NURSING PATHWAY occupations listed below meet two out of three of GDOE definitions for high-demand, high-wage and high-skilled. [www.occupsuppliedemand.org](http://www.occupsuppliedemand.org)

<table>
<thead>
<tr>
<th>Occupation Specialties</th>
<th>Level of Education Needed</th>
<th>Average Salary in Georgia</th>
<th>Annual Average Openings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registered Nurse</td>
<td>Associate Degree</td>
<td>$58,104</td>
<td>8,143</td>
</tr>
<tr>
<td>Health Educator</td>
<td>Bachelor Degree</td>
<td>$58,427</td>
<td>330</td>
</tr>
<tr>
<td>Medical and Health Services</td>
<td>Work Experience</td>
<td>$74,486</td>
<td>90</td>
</tr>
<tr>
<td>Manager</td>
<td>Master Degree</td>
<td>$58,427</td>
<td>100</td>
</tr>
</tbody>
</table>

Go to GACollege411 at [www.GACollege411.org](http://www.GACollege411.org) for more information about your education and career planning, including valuable financial information (grants and scholarships including HOPE Program, Loans, AND FAFSA and CSS forms).

**Current GEORGIA Graduation Rule for student entering the 9th grade fall of 2008-2009**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
<th>Postsecondary Programs of Study</th>
<th>Postsecondary Programs of Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Language Arts</td>
<td>4</td>
<td>Technical College</td>
<td>University of Georgia System</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4</td>
<td>TBA</td>
<td>TBA</td>
</tr>
<tr>
<td><em>Science</em></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Studies</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Career, Technical &amp; Agricultural Education and/or Modern Language/Latin, and/or Fine Arts</strong></td>
<td>4</td>
<td>TBA</td>
<td>TBA</td>
</tr>
<tr>
<td>Health &amp; Physical Education</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>23</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>23</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- *Science may be used to meet both the required science and required electives in CTAE sequence of courses.
- **Students must complete 3 units in a pathway to complete CTAE pathway and take the end of pathway assessment. Student must complete 2 years of the same Modern Language/Latin for admission to Georgia Board of Regents colleges/universities.

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NURSING PATHWAY

An estimated 3.6 million new health care wage and salary jobs will be created by 2014, more than in any other industry. Registered nurses make up the largest health care occupation with 2.1 million jobs. Students interested in pursuing a nursing career will have excellent job opportunities; employment of RNs is projected to increase more than 20% by 2014, creating the second largest number of new jobs among all occupations.

Three out of five RN jobs are in hospitals, but rapid job growth is expected in hospital outpatient facilities, such as same-day surgery, rehabilitation, and chemotherapy. Growth is also expected in nursing care facilities and in home health care. RNs with a bachelor degree will have better job prospects than those with either an associate degree or a diploma.

Those considering a nursing career should have a strong desire to help others, a genuine concern for the well-being of patients and clients, and the ability to deal with people of diverse backgrounds in stressful situations. If you take the sequenced healthcare courses recommended in this education and career plan, you can receive the American Heart Association Basic Life Support Certification, American Red Cross CPR and First Aid Certification, Georgia Medical Care Foundation Certification for Nursing Assistant, and the National Health Care Foundations Skills Standards Certification upon graduation from high school. There are many and varied areas of nursing, including Licensed Practical/Vocational Nurse (LPN/LVN) and Registered Nurse (RN). Most nursing programs require education beyond high school, including diploma programs, associate degree programs, and bachelor degree programs and beyond.

Once you complete all your education and training, you will need to be licensed as an Advanced Practice Nurse, a Registered Nurse (RN), or a Licensed Practical/Vocational Nurse (LPN/LVN). As many other professions, nurses must be licensed in the state where they work. You must take the NCLEX-RN or NCLEX-PN examination to become a licensed nurse. For more information about nursing licensure and public protection, consult the National Council of State Boards of Nursing.

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Implementation

• Currently HB 186 mandates that the new pathways will be implemented during the 2012-2013 school year

• All students currently enrolled in a high school will follow the current pathways and courses

• The new pathways will be phased in beginning with the foundation course with the additional courses introduced as they are completed
House Bill 713

... so as to delay implementation of some career and college readiness initiatives until the 2013-2014 school year; to require career education in grades kindergarten through 12; to change the mandated assessment for postsecondary readiness to the end of the eleventh grade;...
For Additional Information

Georgia DOE CTAE Web Page

National Career Clusters Web Site
www.careerclusters.org
If you have any questions or suggestions for the Career, Technology and Agricultural Education team please feel free to contact us.

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