

Gateway Community College Dual Enrollment “College Now” Partnership with WHHS

Presenter: Eric Rice STEM-Technology Education, Family and Consumer Sciences and Nursing Department Chair

MFG102-Manufacturing Processes

ARC 133-Technical Drafting

AUT 132-Automotive Specifications

AUT 138-Brakes



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GCC College Now Dual Enrollment Program

Partnership program that provides high school students with an opportunity to earn college credits while completing their high school requirements through dual and concurrent enrollment.



- Gives you a step ahead into college life and the skills needed to succeed
- Saves students time and money
- Demonstrates academic initiative
- Improves transition (K-14+)
- Provides access to GCC academic resources
- Increases Self-Efficacy
- Awareness of college and career pathway programs



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Up to the Challenge-The Role of Career and Technical Education and 21st Century Skills in College and Career Readiness (2010)

Three key developments identified as improving student outcomes more tightly aligned to postsecondary, business and civic needs:

- Content knowledge, academic skills, and employability and technical knowledge and skills are essential for student success.
- Lifelong learning and “learning how to learn” are key drivers in success in college, careers and civic life.
- Collaborative efforts in districts and communities strengthen their collective capacity to deliver results. **Strategic alliances and sustained collaboration with postsecondary educators and employers** nationwide have been identified as strengths of Career and Technical education programs.



PARTNERSHIP FOR
21ST CENTURY SKILLS



STATE  DIRECTORS
National Association of State Directors
of Career Technical Education Consortium

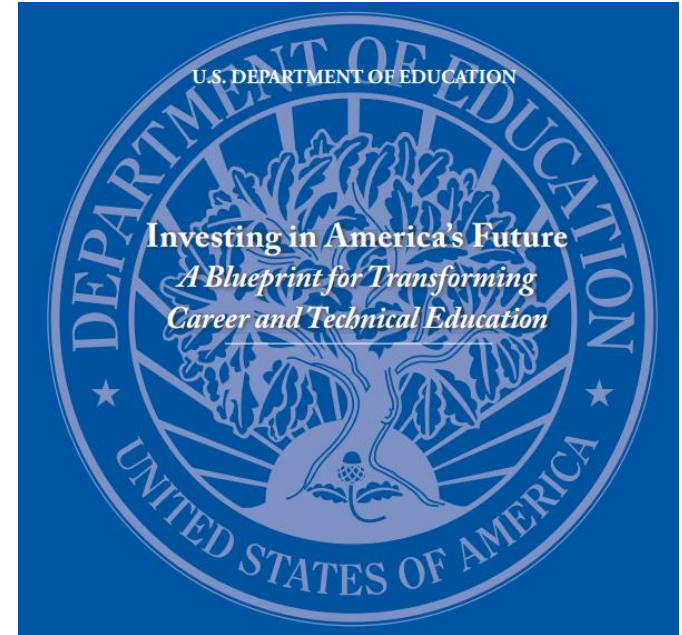


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U.S. Department of Education Report: Investing in America's Future-A Blueprint for Transforming Career and Technical Education (April 2012)

Alignment -Effective alignment between high-quality CTE programs and labor market needs equips students with 21st-century skills and prepare them for in-demand occupations in high-growth & difficult to fill industry sectors.

Collaboration-Strong collaborations among secondary and postsecondary institutions, employers, and industry partners improve the quality of CTE programs.



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November 2015- *Next Gen High School Summit*

Included in the list of challenges to promote a rethinking of the high school learning experience are:

- **Offer opportunities to earn postsecondary credit** while still in high school through college-level coursework, such as dual enrollment, advanced placement courses, or other postsecondary learning opportunities.
- **Redesign academic content and instructional practices** to align with postsecondary education and careers and to foster deep understanding and mastery, with student-centered learning in a culture of high expectations.



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Making College and Career Readiness the Mission for High Schools: A Guide for State Policymakers

Achieve and the Education Trust (November 2008)

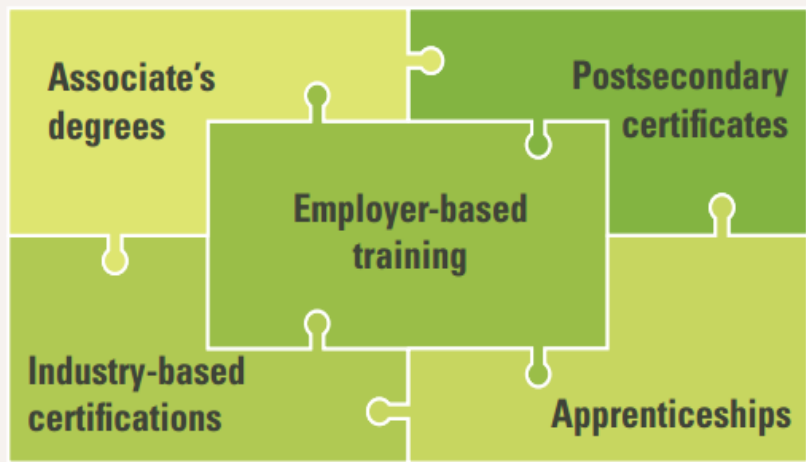
- High schools and school systems should be pushed not only to help students take the right courses, but to help students earn college credits while still in high school. Doing so will help students gain the momentum and confidence to succeed in high school and beyond.
- There is increasing evidence that exposure to college-level work can engage and challenge all high school students—and **not just the highest-achieving ones**. Students should be able to take college-level classes and earn college credit through such programs as **dual enrollment**, early college high schools, Advanced Placement (AP), etc.



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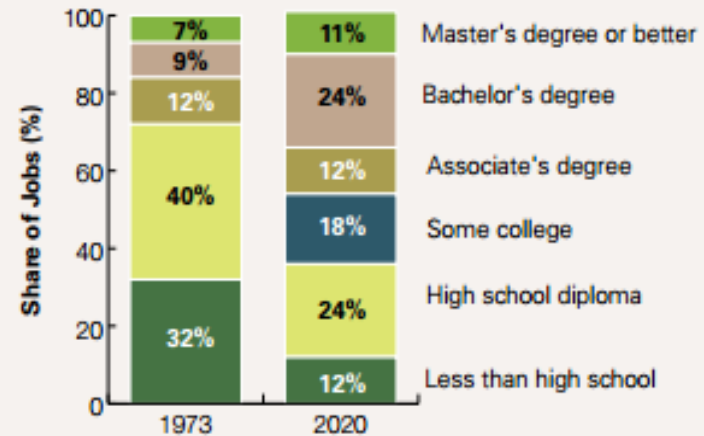
Career and Technical Education: Five Ways That Pay Along the Way to the B.A.

Georgetown Center on Education and the Workforce
(September 2012)



Five major sub-baccalaureate, career and technical education (CTE) post-secondary training (non 4 year) that lead to middle class jobs

At least some postsecondary education or training is becoming the entry-level requirement for many jobs.



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WHHS CTE Benefits to Dual Enrollment Partnerships

- Student Learning and Experience
- **WHHS High School Teacher Involvement**
- Capacity building: Collaboration, Professional Development, Resource sharing, etc.
- Student advancement in CTE WHHS Pathways



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Automotive Technology

-Students will attend GCC Automotive Specifications with Mr. Stephen Shine on Fridays

AUT 132 Automotive Specifications (2 Semester Hours) Course Description

- *Includes the selection, use and care of specialized shop tools and manuals. Describes the many manipulative skills needed in simple mechanical operation. The course is directed primarily at the student who desires basic knowledge in automotive technology. Four hours of lab.*



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Automotive Technology

-This is for student(s) from WHHS who are continuing on in the extended day-Dual Enrollment Program

AUT 138 Brakes (3.5 Semester Hours)

Course Description

- *Covers theory, diagnosis, and repair procedures for all automotive hydraulic brake systems. This covers all disc and drum brakes and repair procedures. Three hours of lecture/two hours of lab.*



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Manufacturing Technology

- Students will attend GCC MFG 102 with Mr. Dan Shine on Wednesdays
- The ARC 133 course is a required co-requisite and GCC is requiring it to be taught by GCC credentialed instructor
- ARC 133 will be offered during the WHHS normal bell schedule on M, Tu, Th, and F

Manufacturing Processes (MFG) 102, 3 Semester Hours=3 credits

- Provides theoretical concepts of manufacturing and develops the knowledge and skills required in the manufacturing process. The laboratory portion introduces common metal cutting tools, lathe operations, and associated precision measuring tools and instruments. Labs will involve set-up and preparation of milling machines, lathes, grinders, and drill presses. Two hours of lecture / three hours of laboratory. Co-requisite: ARC* 133.

Technical Drafting ARC 133 3 Semester Hours=3 Credits

- Introduces the principles of engineering drawing. Covers the use of drafting instruments, good lettering practices, geometric construction, orthographic projection, sectional and auxiliary views, surface developments, machine screw/threads, dimensioning, fits, and tolerances. Introduces geometric dimensioning and tolerancing.



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