



# ARTICULATION AGREEMENT



## College Tech Prep Program

Montgomery County Public Schools Program: **Construction & Development Cluster, HVAC**

Montgomery College Program: **Building Trades Technology, A.A.S.; Building Trades Certificate**

**INTRODUCTION:** In the past several years, technological advances have changed the processes and equipment used in a growing number of technical fields. Today’s workforce is confronted with diverse and complex technical concepts and equipment and must have a broad understanding of the comprehensive principles that govern the behavior of the systems and subsystems that make up the work environment.

The College Tech Prep Program is a partnership between Montgomery County Public Schools (MCPS) and Montgomery College (MC). It is designed to provide a rigorous, relevant curriculum for students who wish to explore or prepare for technical careers.

Administration, curriculum coordinators, and the respective faculties of both institutions have examined course competencies and content taught at both institutions in **Construction and Development Cluster, HVAC**, and **Building Trades Technology, HVAC**, and have agreed to develop, for the maximum benefit of students, an articulated program in Building Trades to prepare students for degrees or certificates in the applicable programs listed in the chart below.

**CERTIFICATION:** Students who wish to enter Montgomery College will present an official high school transcript attached to a completed Articulation Agreement Credit Award Form verifying successful completion of the articulated courses with a grade of B or better to: Montgomery College, Office of Academic Initiatives, College Tech Prep Program, 51 Mannakee Street, Rockville, MD 20850. To receive credit, students must enroll at Montgomery College within two years of completion of an articulated program with MCPS. Credit will be transferred upon admission into Montgomery College in an applicable program.

<b>MCPS PROGRAM</b>	<b>APPLICABLE MC PROGRAM</b>
Construction and Development Custer, HVAC	Building Trades Technology A.A.S. Building Trades Technology Certificate
<b>MCPS COURSES</b>	<b>CORRESPONDING MC COURSES</b>
Foundation of Building & Construction Technology (5561/5562 or 5559/5560) <i>and</i> HVAC 1A/B (5123/5129) <i>and/or</i> HVAC 2A/B (5127/5128)	BU130 Introduction to the Building Trades (3 credits) BU148 Heating, Ventilating, and Air Conditioning I (4 credits)

OTHER SPECIAL CONSIDERATIONS:

None

IMPLEMENTATION: To implement this agreement, the participating institutions agree to:

1. Offer approved Montgomery County Public Schools courses during grades nine through twelve in mathematics, science, and technology that include prerequisite skills and content for courses offered in the Montgomery College curriculum in Building Trades. Students should be encouraged to pursue a challenging academic program in grades nine through twelve. Students may be required to take developmental courses in English, reading, and mathematics before moving on to the next level course in their chosen Montgomery College program.
2. Upon completion of the specific MCPS technical courses outlined in this agreement, students may receive college credit when they enter Montgomery College's Building Trades, A.A.S. degree or Building Trades Certificate program.
3. Jointly develop promotional materials to describe the program to students, staff, faculties, parents, and the community.
4. Jointly develop and implement a procedure to monitor, evaluate, and assess the effectiveness of the program.
5. Communicate this agreement to all concerned, including counselors, faculty, students and parents.
6. Designate one MCPS administrator and one MC representative with responsibility for coordinating and supervising the agreement.
7. Review the agreement annually and coordinate any curricular changes that may affect the agreement.

THIS AGREEMENT, having been formulated by the responsible faculties and administrative personnel of the Montgomery County Public Schools, and Montgomery College, and having been certified by the chief academic officers of both institutions, is herewith agreed to for implementation beginning with the fall semester 2005.

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Jerry D. Weast, Ed.D.  
Superintendent of Schools  
Montgomery County Public Schools

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Charlene Nunley, Ph.D.  
President  
Montgomery College

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Date

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Date

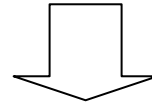
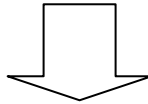
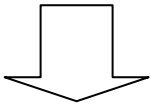
MCPS Program: Construction & Development Cluster, HVAC  
MC Program: Building Trades Technology

**Sample Tech Prep High School Program – Construction & Development Cluster, HVAC**

Grade 9	Grade 10	Grade 11	Grade 12
English	English	English	English
Mathematics Algebra 1 Geometry or Geometry (H)	Mathematics Geometry Algebra 2 w/ Analysis	Mathematics Algebra 2 Precalculus w/ Analysis	Mathematics Precalculus AP Calculus
Social Studies	Social Studies	Social Studies	Software Applications by Design A/B (tech ed credit)
Science (PC) Matter & Energy	Science (BC) Biology	Science (PC) Chemistry	Science (Elective) Physics (PC)
Foreign Language	Foreign Language	<b>Foundations of Building &amp; Construction Technology (5561/5562 or 5559/5560)* and HVAC 1A/B (5123/5129)* and/or HVAC 2A/B (5127/5128) *</b>	<b>1<sup>st</sup> sem. HVAC 1B* 2<sup>nd</sup> sem. HVAC 2A* or HVAC Internship</b>
Physical Education	Health (.5)/Elective (.5)		
Exploring Technological Concepts A/B (tech ed credit)	Fine Arts		

DP = Double period and TP = Triple period

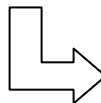
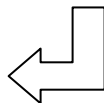
**\*Articulated credit**



**Sample College Tech Prep Program – Building Trades Technology, A.A.S., HVAC**

First Year	Second Year
EN101 Techniques of Reading & Writing	BU244 Electricity II
Speech foundation	Natural sciences lab distribution
BU250 Safety for the Building Trades	BU146 Plumbing I
BU131 Blueprint Reading	CT135 Construction Field Operations
BU140 Carpentry I	<b>BU130 Intro to the Building Trades*</b>
English foundation	BU249 HVAC II
Mathematics foundation	Behavioral and social sciences distribution
<b>BU149 HVAC I*</b>	CT181 Architectural Drafting Techniques
CT130 Construction Methods and Materials	HE100 Principles of Healthier Living
BU144 Electricity I	

Join the building trades industry  
work world!



Continue your education!



# Articulation Agreement Credit Award Form



## College Tech Prep Program

Montgomery County Public Schools Program: **Construction & Development Cluster, HVAC**  
 Montgomery College Program: **Building Trades Technology, A.A.S. or Certificate**

Montgomery College (MC) and Montgomery County Public Schools (MCPS) have an articulation agreement for the **Construction & Development Cluster, HVAC** and the **Building Trades, HVAC** programs. Students may earn up to eight credits toward their college degrees through the Building Trades Technology program if they maintain a B average or better in the high school portion of these. To receive credit, students must enroll at MC within two years of completion of an articulated program with MCPS.

**Certification:** Students who wish to enter Montgomery College must request their home school registrar to mail **an official** high school transcript attached to the back of this completed Articulation Agreement Credit Award Form to: Montgomery College, Office of Academic Initiatives, College Tech Prep Program, 51 Mannakee Street, Rockville, MD, 20850.

Student Name: \_\_\_\_\_ Student Social Security Number: \_\_\_\_\_

Address: \_\_\_\_\_ Home Phone: \_\_\_\_\_

Address: \_\_\_\_\_ Work Phone: \_\_\_\_\_

High School Attended: \_\_\_\_\_ Date of High School Graduation: \_\_\_\_\_

High School Official's Title and Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Please check the appropriate MC curriculum.	Please indicate grade received for high school courses.	Corresponding college courses.
<input type="checkbox"/> Building Trades Technology, A.A.S. <input type="checkbox"/> Building Trades Technology Certificate	<input type="checkbox"/> Foundation of Building & Construction Technology (5561/5562 or 5559/5560) <i>and</i> <input type="checkbox"/> HVAC 1A/B (5123/5129) <i>and/or</i> <input type="checkbox"/> HVAC 2A/B (5127/5128)	<input type="checkbox"/> BU130 Introduction to the Building Trades (3 credits) <i>and</i> <input type="checkbox"/> BU148 Heating, Ventilating, and Air Conditioning 1 (4 credits*)

\*Students who complete only one year of HVAC who have written recommendations from the program instructor and resource teacher will be evaluated by the program coordinator for Building Trades Technology at MC and, based on this evaluation, may receive up to four credits for BU148.