

**STATEWIDE  
ARTICULATION AGREEMENTS  
FOR  
CAREER & TECHNICAL EDUCATION**



October 2012

## Introduction

A statewide articulation meeting was held on Thursday, March 29<sup>th</sup>, 2007 at Mississippi State University's Bost Extension Center. The meeting was facilitated by representatives from Mississippi Department of Education (MDE), the Mississippi Community College Board (MCCB), the Chief Career-Technical Officers and Deans Association (CCTODA), and staff of the Research & Curriculum Unit (RCU) of Mississippi State University. Approximately 120 secondary and postsecondary faculty from various programs participated in the day-long event, designed to help identify program areas with potential for articulated credit.

Along with various facilitators from the MCCB, CCTODA, MDE and RCU, a minimum of two postsecondary faculty members and one secondary faculty member from each Career & Technical Education program met to compare curricula and course competencies in order to determine if potential for articulated credit existed. Some programs were unable to find sufficient commonality to recommend articulated credit. However, faculty members and facilitators did recommend articulations in 54 unduplicated CTE courses from 33 secondary vocational programs and 50 postsecondary CTE programs.

Those recommendations were submitted to the CCTODA. The Deans asked for their comments and were also asked to share the recommendations with their faculty and generate faculty feedback. The comment period lasted for six weeks, at which time the recommendation and comments were considered and voted upon by the CCTODA. Those recommendations then went to the Mississippi Association of Community and Junior Colleges (MACJC), which is the association for community and junior college presidents in the State. The MACJC voted to recommend the articulations to the Mississippi Community College Board, which took action to approve the Statewide Articulations on June 15, 2007.

Beginning in 2008, in an effort to preserve validity and relevance of all statewide articulations, curriculum development and revision teams assumed responsibility for reviewing secondary program competencies and postsecondary course competencies, and for making recommendations on existing or potential statewide articulations. Newly proposed articulation agreements are now listed in the Preface section of each postsecondary draft curricula, and the curriculum validation process is now the venue for comment on those changes prior to approval. The Research Synopsis also states that the articulation

agreement (if it is an addition or a modification) will be effective when the college implements the revised curriculum.

As described in the federal Perkins Act of 2006, a statewide articulation provide[s] students with the opportunity for a non-duplicative sequence of progressive achievement leading to technical skill proficiency, a credential, a certificate, or a degree.” For students, it provides a career path into a postsecondary CTE program. For colleges, it provides an effective tool for recruiting high school CTE students into community or junior college CTE programs. Attached is a table of the 2009-2010 Statewide Articulations, along with the guidelines on statewide articulated credit.

During 2009-2010 a statewide articulation committee was developed to enhance and improve the existing process for awarding articulated credit. The committee consisted of Career and Technical Deans, Tech Prep Coordinators, Admission Officers, Mississippi Department of Education staff, Superintendents, and MCCB staff. Meetings were held on November 6, 2009; December 7, 2009; January 25, 2010; March 3, 2010; and April 7, 2010 at the Mississippi Education Research Center. The recommended changes were presented to the CCTODA on December 11, 2009 and February 3, 2010 for suggested recommendations and approval.

The college’s technology staff will play a pivotal role in developing the software programming code to capture the data; and the registrars and admission directors will be critical to the identifying, awarding, and transcribing the articulated course(s). Therefore, the recommended revisions to the current articulation process were also presented for recommendation to the registrars and admission directors during the Mississippi Association of Collegiate Registrars and Admission Officers (MACRAO) conference on April 12, 2010. The revisions were also presented to the community college technology directors on April 22, 2010 at their annual meeting.

The recommended revisions to the current articulation process were developed to clarify definitions of articulation, define and distinguish between Dual Enrollment and Dual Credit, develop a formal process for articulated credit transfer from high school to community college, eliminate time processing and transcribing barriers, and to market articulated programs. More specifically the following recommendations were made to enhance the current articulation agreement:

1. Review old and ensure new course competencies are in complete alignment. This process will be improved due to MDE agreeing to align the secondary curriculum revision schedule with postsecondary. Competency alignment will be a function of the RCU.

2. Ensure that colleges are not requiring students to retake articulated courses, except in instances where the student opts to retake the course.
3. Establish a new tracking process to assist MDE, community colleges, and the students. The process is as follows.
  - The community college will adopt the MSIS number from secondary as one method to track students. This number provides a unique identifier for all public k-12 students for longitudinal data tracking.
  - MDE will create a certificate and send to the students that qualify for articulated credit; which shall contain the student's MS-CPAS2 scores and applicable articulated courses.
  - The MS-CPAS2 score of eligible completers (scoring 80% or better) and articulated course will be identified on the student's high school transcript for easy recognition and data entry for community college personnel. The RCU will be responsible for providing labels to MDE for each student that qualifies for articulated credit to place on student's transcript. The labels will contain each student's name, MSIS number, MS-CPAS2 scores, CIP code, district number, secondary pathway name, and college number (identified by student as colleges of interest).
4. Eliminate the 12 hour non-developmental requirement to allow the credit to be transcribed immediately upon college enrollment and to allow students the flexibility to take additional courses.
5. MDE and the community college will assist with more concentrated marketing of the value and process for receiving articulated credit.

An articulation committee was reconvened in July 2012 to update the articulation document. The changes made reflect the future of articulation and were agreed upon by all members. The secondary pathways have been recently updated and many pathway names have changed, which is noted in the secondary pathway column in the chart below. A note has been made in several secondary areas that the pathway will no longer be offered after June of 2013. On August 17, 2012, the Mississippi Community College Board approved the revised articulation agreement to post to APA for public review and comment. After receiving no substantive changes, the Mississippi Community College Board approved the adoption of the Final Document during the October 19, 2012 Board meeting.

**Eligibility**

- **To be eligible for articulated credit, a student must:**
  - Complete the articulated Secondary Career and Technical Education Program
  - Score an 80 percent or higher on the Mississippi Career Planning and Assessment System (MS-CPAS2) in their secondary program of study
- **To be awarded articulated credit, a student must:**
  - Enroll in the community or junior college within 18 months of graduation
  - Articulated courses are transcribed immediately upon enrollment at a community college

**How MS-CPAS2 will be documented**

- The Research and Curriculum Unit of Mississippi State University will provide MS-CPAS2 scores, CIP Codes, district codes, secondary pathway name, and college numbers (identified by each student as colleges of interest) to Mississippi Department of Education to place on student transcripts.
- The Research and Curriculum Unit of Mississippi State University will provide MS-CPAS2 scores, CIP Codes, district codes and college number to the MCCB.
- The MCCB will forward the list of students eligible for articulated credit to the colleges.

**Transcripting of Articulated Credit**

- Articulated credit will be transcribed immediately upon college enrollment
- No grade will be given on the transcript for articulated courses, only hours granted will be transcribed (thus resulting in no change in quality points)

**Time Limit**

- MS-CPAS2 scores will be accepted to demonstrate competencies for up to 18 months after high school graduation

**Cost**

- No costs will be assessed on hours earned through articulated credit

**Impact on Local Articulations**

- Statewide articulations are supplemental to any articulation agreements established between a college and a local school or district. Statewide articulations provide additional avenues for students to obtain articulated credit. They do not nullify any existing local agreements.

**2012-2013 Statewide Articulations**

**Statewide articulations are subject to change as secondary and postsecondary curriculum revisions occur.  
All articulations listed in this document are effective as of July 1, 2012, unless otherwise noted.**

<b>SEC Pathway</b>	<b>PS Program</b>	<b>PS Courses</b>
S Agricultural & Environmental Science & Tech – Animals (CIP 01.0901 )	PS Ag Business & Mgmt Technology <ul style="list-style-type: none"> <li>(CIP 01.0302) Agricultural Animal Husbandry/Production)</li> </ul>	AGT 1214 - Applied Principles of Animal Production
S Agricultural & Environmental Science & Tech – Plants (CIP 01.1101 )	PS Ag Business & Mgmt Technology <ul style="list-style-type: none"> <li>(CIP: 01.0304 – Field Crops)</li> </ul>	AGT 1313 - Applied Principles of Plant Production
S Agricultural & Environmental Science & Tech – Concepts (CIP: 01.9999)	PS Ag Business & Mgmt Tech(Program CIP: 01.0304 – Field Crops)	AGT 1111 - Survey of Agricultural Technology
S Agricultural & Environmental Science & Tech – Environments (CIP: 03.0104)	PS Ag Business & Mgmt Tech(CIP: 01.0304 – Field Crops)	AGT 1313 - Applied Principles of Plant Production
S Agricultural & Environmental Science & Tech – Agricultural Mechanization (CIP: 01.0201)	PS Ag Business & Mgmt Tech(Program CIP: 01.0304 – Field Crops)	AGT 2563 - Agricultural Machinery and Shop Management
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S Agriculture & Natural Resources (CIP 01.0003)	PS Ag Business & Mgmt Tech <ul style="list-style-type: none"> <li>(CIP 01.0102) Agricultural Business/Agribusiness</li> <li>(CIP 01.0302) Agricultural Animal Husbandry/Production)</li> <li>(CIP: 01.0304 – Field Crops)</li> <li>(CIP: 01.1105 – Precision Agriculture Technology)</li> </ul>	AGT 1111 - Survey of Agriculture
S AgriScience (CIP 02.9992). *This course will be removed June 2013.	PS Ag Business & Mgmt Tech <ul style="list-style-type: none"> <li>(CIP 01.0102) Agricultural Business/Agribusiness</li> <li>(CIP 01.0302) Agricultural Animal Husbandry/Production)</li> <li>(CIP: 01.0304) Field Crops</li> <li>(CIP: 01.1105) Precision Agriculture Technology</li> </ul>	AGT 1111 - Survey of Agriculture
S Horticulture (CIP: 01.0601)	PS Horticulture Technology Cluster: Landscape Management <ul style="list-style-type: none"> <li>(CIP 01.0601) Horticulture Service Operations Management</li> </ul>	HLT 1213 - Applied Principles of Plant Propagation  HLT 1411 – Leadership Management

<b>SEC Pathway</b>	<b>PS Program</b>	<b>PS Courses</b>
S Business & Computer Technology (CIP 52.0407) *This course will be removed June 2013.	PS Business & Office Related Technology <ul style="list-style-type: none"> <li>• (CIP 52.0401) Office Systems Technology</li> <li>• (CIP 52.0302) Accounting Technology</li> <li>• (CIP 52.0407) Microcomputer Technology: Business/Office Automation/Technology/Data Entry</li> <li>• (CIP 51.0799) Health-care Data Technology</li> </ul>	BOT 1133 – Microcomputer Applications
	PS Banking & Finance Technology (CIP 52.0803)	BFT 1513 - Banking and Finance Math
	PS Court Reporting Tech (CIP 22.0303)	BOT 1313 - Applied Business Math
	PS Medical Assisting Technology (CIP 51.0801)	CPT 1113 – Fundamentals of Microcomputer Applications CPT 1323 – Survey of Microcomputer Applications
	PS Health Information Tech	CPT 1113 – Fundamentals of Microcomputer Applications CPT 1323 – Survey of Microcomputer Applications
S Business Fundamentals (CIP: 52.0101)	PS Office Systems Technology (Program CIP - Office Systems Technology: 52.0401 - Administrative Assistant/Secretarial Science)	BOT 1213 – Personal and Professional Development
S Audio & Television Broadcasting (CIP 10.0202)	PS Media Technology (CIP 10.0202) PS Digital Arts and Design Technology <ul style="list-style-type: none"> <li>• (CIP 50.0409) Graphic Design Technology</li> <li>• (CIP 11.0801) Web Development Technology</li> </ul>	MDT 1314 - Fundamentals of Television Production
S Computer Graphics Technology (CIP 50.0402)	PS Digital Arts and Design Technology <ul style="list-style-type: none"> <li>• (CIP 50.0409) Graphic Design Technology</li> </ul>	CAT 1213 – Fundamentals of Graphic Computers
	<ul style="list-style-type: none"> <li>• (CIP 11.0801) Web Development Technology</li> </ul>	WDT – 1414 – Web Design Applications

<b>SEC Pathway</b>	<b>PS Program</b>	<b>PS Courses</b>
S Management (CIP: 52.0204 )	PS Office Systems Technology (Program CIP - Office Systems Technology: 52.0401 - Administrative Assistant and Secretarial Science) Accounting Technology (Program CIP - Accounting Technology: 52.0302 - Accounting Technology/Technician and Bookkeeping) Microcomputer Technology (Program CIP - Microcomputer Technology: 52.0407 - Business/Office Automation/Technology/Data Entry) Health-care Data Technology (Program CIP – Health-care Data Technology: 51.0799 - Health and Medical Administrative Services, Other)	BOT 1313 - Applied Business Math
S Management (CIP: 52.0204 )	PS Banking and Finance Technology (Program CIP: 52.0803 – Banking and Financial Support Services)	BFT 1513 - Banking and Finance Math
S Management ( CIP: 52.0204 )	PS Court Reporting Technology (Program CIP: 22.0303 – Court Reporting/Court Reporter)	BOT 1313 - Applied Business Math
S Allied Health (CIP 51.0000) is being replaced with Health Sciences (CIP: 51.0000). **Pathway name change.	PS Health Information Technology <ul style="list-style-type: none"> <li>(CIP 51.0707) Medical Records Technology/ Technician</li> </ul>	HIT 1213 - Medical Terminology
	PS Medical Assistant Technology <ul style="list-style-type: none"> <li>(CIP 51.0801) Medical /Clinical Assisting</li> </ul>	MET 1113 - Medical Terminology
	PS Health-Care Assistant <ul style="list-style-type: none"> <li>(51-3902) Health Care Assistant</li> </ul>	HCA 1214 – Body Structure and Function
	PS Surgical Technology	BOT 1613 Medical Office Terminology I
S Automotive Body Repair (CIP 47.0603) is being replaced with Collision Repair Technician (CIP: 47.0603) **Pathway name change.	PS Collision Repair Technology (CIP 47.0603)	ABT 1133 - Glass and Related Hardware Installation and Sealing.is being replaced with ABT 1314 – Refinishing I
S Outboard Marine Engine Mechanics (CIP 47.0692)	PS Marine Engine Mechanics	MAV 1115 - Fundamentals of Outboard Marine Engine Repair MAV 1242 - Marine Engine Cooling Systems



<b>SEC Pathway</b>	<b>PS Program</b>	<b>PS Courses</b>
S Basic Electronics (CIP 47.0101) *This course will be removed June 2013.	PS Electronics and Related Engineering Technology <ul style="list-style-type: none"> <li>(CIP 47.0103) Communications Systems Installation and Repair Technology</li> <li>(CIP 15.0303) Electrical, Electronic, and Communications Engineering Technology</li> <li>(CIP 15.0305) Telecommunications Technology</li> <li>(CIP 47.0101) Biomedical Equipment Repair Technology</li> </ul>	EET 1114 - DC Circuits
S Electrician and Industrial Maintenance (CIP 46.0302) *This course will be removed June 2013.	PS Electrical Technology (CIP 46.0302)	ELT 1192 – 3 Fundamentals of Electricity
S Masonry (CIP 46.0101)	PS Brick, Block, & Stone Masonry (CIP 46.0101)	BBV 1313 - Tools, Equipment, and Safety
	PS Commercial/Residential Maintenance (CIP 46.0401)	CRM 1313 – Masonry
S Metal Trades - Machine Shop Option (CIP: 48.0590) is being replaced with S Metal Fabrication (CIP 48.0503) **Pathway name change.	PS Precision Manufacturing and Machining Technology (CIP 48.0501)	MST 1114-6 – Power Machinery I
	PS Automotive Machinist Technology (CIP 47.0615)	AUV 1116 - Fundamentals for Automotive Machinists
Secondary CONTREN Learning Series <ul style="list-style-type: none"> <li>S Building Trades (CIP 46.0000 is being replaced with Carpentry CIP: 46.0000 Construction: Carpentry Concentration**Pathway name change.</li> <li>S Metal Fabrication (CIP: 48.0590)</li> <li>S Electrician (CIP 46.0302)</li> <li>S Heating and Air Conditioning (CIP 47.0201)</li> <li>S Industrial Maintenance (CIP 47.0303)</li> <li>S Masonry (CIP 46.0101)</li> <li>S Metal Trades (CIP: 48.0590) is being replaced with S Metal Fabrication (CIP 48.0503) **Pathway name change.</li> <li>S Welding (CIP 48.0508)</li> </ul>	PS Construction Engineering Technology (CIP 15.1001)	CON 1113– Fundamentals of Survey of Modern Construction
Secondary CONTREN Learning Series <ul style="list-style-type: none"> <li>S Carpentry (CIP: 46.0000)Construction: Carpentry Concentration **Pathway name change.</li> <li>S Electrical (CIP: 46.0302)</li> <li>S Plumbing (CIP: 46.0503)</li> </ul>	PS Commercial/Residential Maintenance (Program CIP: 46.0401 – Building/Property Maintenance and Management)	CRM 1214 – Carpentry CRM 1514 – Electrical  CRM 1414– Plumbing
S Heating, Ventilation, & Air-Conditioning (CIP 47.0201)	PS HVAC (CIP 47.0201)	ACT 1125 - Basic Compression Refrigeration
S Industrial Maintenance (CIP 47.0303)	PS Industrial Maintenance Trades (CIP 47.0303)	IMM 1213 - Industrial Hand Tools and Mechanical Components

<b>SEC Pathway</b>	<b>PS Program</b>	<b>PS Courses</b>
S Machine Tool Operation (CIP 48.0503) is being replaced by S Precision Machining(CIP 48.0503)	PS Precision Manufacturing and Machining Technology (CIP 48.0501)	MST 1114-6 - Power Machinery I
	PS Tool and Die Technology (CIP 48.0507)	MST 1114-6 - Power Machinery I
	PS Industrial Maintenance Trades(CIP 47.0303)	IMM 1224 - Power Tool Applications
	PS Automotive Machinist Technology (Program CIP: 47.0615)	AUV 1116 Fundamentals for Automotive Machinist
S Residential Carpentry (CIP 46.0201) *This course will be removed June 2013.	PS Commercial/Residential Maintenance (CIP 46.0401)	CRM 1214 – Carpentry
S Welding (CIP 48.0508)	PS Welding & Cutting Tech (CIP 48.0508)	WLV 1116 - Shielded Metal Arc Welding I
	PS Industrial Maintenance Trades (CIP 47.0303)	IMM 1734 - Maintenance Welding and Metals
	PS Commercial Residential Maintenance (46.0401 Building Property Maintenance and Management)	CRM 1713 – Welding
S General Drafting (CIP 15.1301) is being replaced with S Architecture and Drafting (CIP15.1301) **Pathway name change.	PS Drafting & Design Technology Cluster <ul style="list-style-type: none"> <li>• (CIP 15.0101) Architectural Engineering Technology/Technician</li> <li>• (CIP 15.1301) Drafting General</li> <li>• (CIP 45.0702) Geographical Information Systems Option</li> </ul>	DDT 1113 - 4 Fundamentals of Drafting  DDT 1313 – Principles of CAD
	PS Civil Technology (CIP 15.0201)	DDT 1113 - 4 Fundamentals of Drafting  DDT 1313 – Principles of CAD
S Design Technology for Fashion and Interiors (CIP 19.0901) *This course will be removed June 2013.	PS Clothing and Textile Services (CIP 19.0905)	CTV 1213 – Equipment Use and Care  CTV 1233 - Fashion and Accessory Designs
S Culinary Arts (CIP 20.0401)	PS Hospitality & Tourism Management Technology <ul style="list-style-type: none"> <li>• (CIP: 52.0901) Hospitality Administration/Management</li> <li>• (CIP 52.0903) Travel and Tourism</li> <li>• (CIP 12.0500) Culinary Arts Technology)</li> </ul>	HRT 1213-4 Sanitation and Safety HRT 2233- Food and Beverage Control
	PS Food Production & Mgmt Tech (CIP 12.0508)	FPV 1213 - Food Service Sanitation  FPV 1113 - Fundamentals of Operational Procedures in Food Service FDV 2613 –Menu Planning and Cost Control
S Early Childhood Education (CIP 19.0709)	PS Early Childhood Education	CDT 1113 – Early Childhood

<b>SEC Pathway</b>	<b>PS Program</b>	<b>PS Courses</b>
	Technology (CIP 19.0709)	Profession
S Hotel Restaurant & Tourism Management (CIP 52.0901)	PS Hospitality & Tourism Management Technology <ul style="list-style-type: none"> <li>• (CIP: 52.0901) Hospitality Administration/Management</li> <li>• (CIP 52.0903) Travel and Tourism</li> <li>• (CIP 12.0500) Culinary Arts Technology)</li> </ul>	HRT 1123 – Introduction to the Hospitality and Tourism Industry
S Teacher Academy (CIP: 13.0101)	PS Early Childhood Education Technology(Program CIP: 19.0709 – Child Care Provider/Assistant)	CDT 1113 – Early Childhood Profession
S Information Technology (CIP: 11.0101)	PS Information Systems Technology (Computer Networking Technology: Program CIP: 11.0901 – Computer Systems Networking and Telecommunications) (Computer Programming Technology: Program CIP: 11.0201 – Computer Programming/Programmer, General) (Database Administration Technology: Program CIP: 11.0802 – Data Modeling/Warehousing and Database Administration) (Network Security Technology: Program CIP: 11.1003 – Computer and Information Systems Security)	CPT 1333 – Operating Systems CNT 2423/CPT 2383 – Systems Maintenance IST 1124 – IT Foundations
S Marketing (CIP: 52.1801)	PS Business and Marketing Management and Related Technology (Program CIP: 52.1401 – Marketing/Marketing Management, General)	MMT 1113 - Marketing I MMT 1313 – Personal Selling
	PS Fashion Marketing Technology (Program CIP: 52.1902 – Fashion Merchandising)	MMT 1113 - Marketing I MMT 1313 - Personal Selling
	PS Banking and Finance Technology (Program CIP: 52.0803 – Banking and Financial Support Services)	BFT 1513 - Banking and Finance Math
S Engineering (CIP: 14.1901)	PS Civil Technology (Program CIP: 15.0201 – Civil Engineering Technology/Technician)	DDT 1113/4 – Fundamentals of Drafting DDT 1313 – Principles of CAD
S Automotive Service Technician (CIP: 47.0604)	PS Automotive Technology (Program CIP: 47.0604 – Automotive/Automotive Mechanics Technology/Technician)	ATV/ATT 1811 - Introduction, Safety, and Employability Skills ATV/ATT 1214 – Brakes
	PS Construction Equipment Operation (Program CIP: 49.0202 – Construction/Heavy Equipment/Earthmoving Equipment Operation)	CEV 1313 - Service and Preventative Maintenance
S Diesel Service Technician (CIP: 47.0605)	PS Diesel Equipment Technology (Program CIP: 47.0605 – Diesel Mechanics Technology/Technician)	DET 1114 - Fundamentals of Equipment