

**Washtenaw Community College
&
Taylor Career Center
2010-2011 School Year**

Secondary/Post Secondary Articulation Agreement Annual Reauthorization

The instructors convened and agree that the current articulation agreements for the courses and programs contained in this document meet agreed upon conditions and the outcomes have been updated. The articulation agreements for all programs contained in this document will be reauthorized for students for the 2010-11 school year. Participating teachers at the secondary level will provide the appropriate student performance record for each student which certifies areas and levels of task achievement. This record will serve as proof of competency for the recommended credit.

Eligible students will be informed of the opportunity to earn college credit.

Contained in this document are:

- List of specific parties in the 2+2 program alignment and articulation
- The secondary and post-secondary state approved CIP code
- The effective dates of implementation (start date), expiration (ending), and discard dates (students are no longer able to access credit)
- The secondary program fulfills the corresponding course at the post-secondary program
- Specific courses that are the foundation of the aligned Tech Prep program articulation agreement. Include academic as well as technical course requirements
- Specific timeline to apply for the credit, or to take a competency test to qualify for the credit
- Specific requirements from the post-secondary institution that a student must meet before articulated credits are granted

This agreement remains effective for two additional years after expiration date to permit student access to agreed upon credits. Please see effective dates.

Curriculum information contained in this document is subject to change at any time. Please consult with college advisor or college website for more current and up-to-date information.

**Secondary – Post-secondary
Curriculum Aligned Course List**

Taylor Career Center			Washtenaw Community College		
Course Number	Title	CIP Code	Course Number	Title	CIP Code
Automation Technology (Machine Tools) 48.0501			48.0501		
	Mfg. Technology Machine Tools I		MTT 111	Machine Shop Theory & Practice (4cr)	
	Mfg. Machine Tools CNC Year II		NCT 101	Intro. To Comp. Machining CNC - I (2cr)	

Secondary / Post-Secondary Program Alignment

Machine Tool Technology

HIGH SCHOOL COURSE SEQUENCE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English 9 Math Science Social Studies Health/Physical Ed Fine/Applied Art Elective	English 10 Math Science Social Studies Health/Physical Ed Online/Technology Exp. Elective	English 11 Math Science Social Studies Machine Tools Elective	English 12 Math Science Social Studies Machine Tools

WASHTENAW COMMUNITY COLLEGE

Automation Technology

Associate in Applied Science Degree

General Education Requirements

(21 - 24 Credits)

<u>Writing</u>	Elective(s)	3 - 4
<u>Speech</u>	Elective(s)	3
<u>Math</u>	Elective(s)	3 - 4
<u>Nat. Sci.</u>	Elective(s)	3 - 4
<u>Soc. Sci.</u>	Elective(s)	3
<u>Arts/Hum.</u>	Elective(s)	3
<u>Computer Lit.</u>	Elective(s)	3

Core Courses

(12 Credits)

<u>AMS 103</u>	Materials and Processes	3
<u>BMG 241</u>	Innovation: Process and Application	1
<u>FLP 101</u>	Fluid Power Fundamentals - I	2
<u>MTT 102</u>	Machining for Auto Applications	2
<u>NCT 101</u>	Introduction to Computerized Machining (CNC) - I	2
<u>ROB 101</u>	Robotics I - I	2

*Core courses must be taken before Major/Area Requirements.

Major/Area Requirements

(26 Credits)

<u>ELE 111</u>	Electrical Fundamentals	4
<u>ELE 224</u>	Introduction to PLCs	4
<u>FLP 110</u>	* Fluid Power Fundamentals - II	2
<u>NCT 110</u>	** Introduction to Computerized Machining (CNC) - II	2
<u>ROB 110</u>	Robotics I - II	2
<u>ROB 212</u>	Robotics II	4
<u>ROB 222</u>	Robotics Simulation	2
<u>ROB 223</u>	Robotics III	2
<u>ROB 224</u>	Robotics IV	4

Program Concentrations:

Certificates are made up of the core courses listed above and the following option courses with the following exception: Industrial Electronics Technology (CFIET).

Advanced Manufacturing Specialty (ADVM)		(14 Credits)
<u>AMS 104</u>	Rapid Prototyping and Methods	3
<u>AMS 105</u>	Lean Manufacturing Methods	3
<u>AMS 204</u>	Innovations Application	4
<u>AMS 205</u>	Build Concept Prototype	4
Fluid Power Specialty (FPWR)		(12 Credits)
<u>FLP 110</u>	* Fluid Power Fundamentals - II	2
<u>FLP 214</u>	Hydraulic Circuits and Controls	4
<u>FLP 225</u>	Fluid Power Motion Control	3
<u>FLP 226</u>	Pneumatics	3
Industrial Electronics Specialty (IELC)		(15 Credits)
<u>ELE 211</u>	Basic Electronics	4
<u>ELE 254</u>	PLC Applications	4
<u>FLP 226</u>	Pneumatics	3
<u>MTT 111</u>	Machine Shop Theory and Practice	4
Machine Tool Technology Specialty (MTTE)		(13 Credits)
<u>CAD 105</u>	Blueprint Reading and Analysis	3
<u>MTT 111</u>	Machine Shop Theory and Practice	4
<u>MTT 203</u>	Advanced Machine Tool Operations	4
<u>NCT 110</u>	** Introduction to Computerized Machining (CNC) - II	2
Numerical Control Specialty (NCTL)		(14 Credits)
<u>NCT 110</u>	** Introduction to Computerized Machining (CNC) - II	2
<u>NCT 121</u>	Manual Programming and NC Tool Operation	4
<u>NCT 221</u>	Advanced Manual Programming and NC Tool Operation	4
<u>NCT 249</u>	CAD/CAM CNC Programming	4
Minimum Credits Required for the Program:		71 - 77 Credits

Footnotes:

*Students who have successfully completed FLP 110 as part of their certificate do not need to take this course as a Major/Area requirement. Course can only be taken once for credit.

**Students who have successfully completed NCT 110 as part of their certificate do not need to take this course as a Major/Area requirement. Course can only be taken once for credit.

See an advisor to assist in scheduling and planning for each semester as some classes have limited offering.

Conditions & Requirements

1. Students must meet admissions requirements of the college.
2. Students should successfully complete a preponderance of tasks at the employable level.
3. Students must receive recommendation from the high school instructor.
4. Students must apply for articulated credit within 24 months following high school graduation.
5. Students must successfully complete 1 credit hour at WCC. Students should also check the requirements of their programs to determine if specific courses are required or recommended.
6. Students shall meet requirements of the intended curriculum and program of study.

Special Conditions

1. This agreement is in effect for students who enter into their career and technical program beginning Fall of 2010 and matriculates to Washtenaw Community College by Fall of 2013.
2. Exception: Students entering the Nursing Program must meet program requirements at the time of entry into the program.
3. All federal, state, and accreditation mandates supersedes this articulation agreement.

Effective Dates

Agreement implementation date: September 1, 2010

Agreement term date: August 31, 2011

Agreement discard date: September 1, 2013

☐ Documentation of secondary instruction delivery/segments is available for review at secondary institution.



November 23, 2010

Edward Buchynski
Taylor Career Center
9601 Westlake St.
Taylor, MI 48180

Dear Edward,

Enclosed please find your updated articulation agreement with Washtenaw Community College for the 2010-2011 school year. Please sign (or forward to the appropriate person for signature) where indicated and return it to me in the enclosed self-addressed envelope. If you have any questions, please call me at (734) 973-3559.

Sincerely,

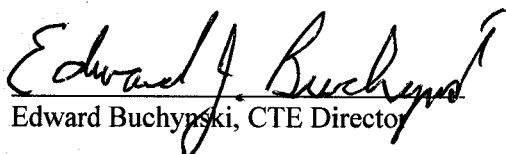
Ché Pomo
Tech Prep Assistant

Participating Instructors

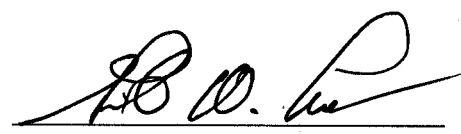
Program	Instructors
Machine Tool Technology	James Mulcahy, Taylor Career Center Tom Penird, Washtenaw Community College

Signatures

Taylor Career Center


Edward Buchynski, CTE Director _____
Date

Washtenaw Community College


Granville Lee, Dean
Health & Applied Technologies _____
Date 11/18/2010


Tom Penird, WCC Faculty _____
Date 11/11/2010