

**Washtenaw Community College
&
Michigan High Schools
2023 - 2024 School Year
2024 - 2025 School Year
2025 - 2026 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 2023-2024 academic year. The articulation agreements will continue for the 2024-2025 and 2025-2026 academic years following a review of course and/or program changes. An addendum will be attached to note any changes for subsequent academic years.

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.

Articulated High School credit is intended to be used toward the completion of a Washtenaw Community College degree or certificate. An articulation agreement between a high school and WCC requires a high school to certify to WCC that the student has achieved the agreed upon level of knowledge and skills from a particular course. Once accepted by WCC, High School articulated credit may not transfer to other colleges or universities. WCC makes no guarantees whether other institutions accept credit hours or count articulated high school credit toward the completion of their degree requirements. Students should check with the college/university they are transferring to from WCC in order to see if the credits are eligible for transfer.

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 agreement start date for years one, two and three
- The H.S. graduation for years one, two and three
- Last date to post credit for graduates during years one, two and three
- The secondary program fulfills the corresponding course at the post-secondary program
- Specific courses that are the foundation of the aligned Career Technical Education (CTE) 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 the agreed upon credits. Please see effective dates below.

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.

Effective Dates

Year 1:

Agreement start date: September 1, 2023
H.S. Graduation during: 2024
Last date to post credit: December 31, 2026

Year 2:

Agreement start date: September 1, 2024
H.S. Graduation during: 2025
Last date to post credit: December 31, 2027

Year 3:

Agreement start date: September 1, 2025
H.S. Graduation during: 2026
Last date to post credit: December 31, 2028

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

Secondary – Post-secondary

Curriculum Aligned Course List

<u>Statewide Agreement</u>		Washtenaw Community College	
Course #	Title <i>CIP Code</i>	Course #	Title <i>CIP Code</i>
Automobile Technician <i>47.0604</i>		Auto Services <i>47.0604</i>	
	Statewide Agreement	ASV 130	Automotive Maintenance (4cr)
		ASV 132	Automotive Engines (4cr)
Business Admin., Mgmt. & Operations <i>52.0299</i>		Business <i>52.0000</i>	
	Statewide Agreement	BMG 140	Introduction to Business (3cr)
Collision Repair Technician <i>47.0603</i>		Auto Body Repair <i>47.0603</i>	
	Statewide Agreement	ABR 111	Introduction to Auto Body Repair (4cr)
		ABR 112	Introduction to Automotive Refinishing (4cr)
Computer Sys. Networking and Technology <i>11.0901</i>		Computer Systems and Networking <i>11.0901</i>	
	Statewide Agreement	CIS 110	Introduction to Computer Information Systems (3cr)
Computer Programming <i>11.0201</i>		Information Systems <i>11.0103</i>	
	Statewide Agreement	CIS 110	Introduction to Computer Information Systems (3cr)
		CPS 171 or CPS 161*	Introduction to Programming with C++ or Introduction to Programming with Java
*Students will be awarded credit for CPS 171. They may request credit for CPS 161 instead.			
Cosmetology <i>12.0400</i>		Elective Credit	
	Statewide Agreement	TRI 300 ¹	Elective Credit (20cr)
¹ Students must present their Michigan State Board of Cosmetology License to be awarded credit.			
Digital Multimedia <i>11.0801</i>		Web Design and Development <i>11.0801</i>	
	Statewide Agreement	WEB 110	Web Development I (4cr)
Finance <i>52.0800</i>		Accounting <i>52.0302</i>	
	Statewide Agreement	ACC 131	QuickBooks Software (3cr)
Graphic and Printing Technology <i>10.0301</i>		Graphic Design <i>54.0409</i>	
	Statewide Agreement	GDT 106	Illustrator Graphics (3cr)
		GDT 108	Photoshop Graphics (3cr)
Health/Therapeutic Services <i>51.0000</i>		Health Science <i>51.1601</i>	
	Statewide Agreement	HSC 100 ³ or HSC 165	Basic Nursing Assistant Skills (4cr) or Foundations of Caregiving (4cr)
		HSC 101	Healthcare Terminology (1cr)

		HSC 131 ⁴	CPR/AED for the Professional Rescuer and First Aid (1cr)
<p>³ Students must bring in their C.N.A. Certificate in order to receive credit for HSC 100. Students must meet additional criteria to apply for admission to the Registered Nursing Program. Additional information is available on the WCC website at http://www4.wccnet.edu/departments/health/. Students who complete the CNA program, but do not have proof/documentation of passing the CNA certification exam may be awarded credit for HSC 165 instead.</p> <p>⁴ Students must present their card(s) for CPR/AED, Child and Infant CPR and First Aid from the American Red Cross to receive credit for HSC 131. Credit will only be granted if all three (3) sections have been passed and are documented.</p>			
Mechatronics		Mechatronics	
	14.4201		15.0405
	Statewide Agreement	MEC 101	Blueprint Reading for Manufacturing (2cr)
		ROB 101	Robotics I – I (2cr)
Radio & TV Broadcasting Technology		Digital Video Production	
	10.0202		59.0602
	Statewide Agreement	VID 105	Foundations in Digital Video I
Welding		Welding	
	48.0508		48.0508
	Statewide Agreement	WAF 103	Introduction to Gas Tungsten Arc Welding (2cr)

Secondary / Post-Secondary Program Alignment

Accounting/Finance HIGH SCHOOL COURSE SEQUENCE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English 9 Speech Art or Music or Graphics Biology Algebra Non Western Civilization Law P.E. / Fitness	English 10 Physical or Earth Science Geometry Western Civilization P.E. Elective	Literature Chemistry Algebra 3, 4 U.S. History Computer Accounting I	English Elective Physics Math Analysis U.S. Government Computer Accounting II

WASHTENAW COMMUNITY COLLEGE

Accounting

Associate in Applied Science Degree

Semester 1		
CIS 110	Introduction to Computer Information Systems	3
BMG 140	Introduction to Business	3
ACC 111	Principles of Accounting I	3
BOS 184	Spreadsheet Software Applications I	3
Math	Select from MTH 125, 160, or 176	4
Semester Total		16
Semester 2		
TAX 101	Income Taxes for Individuals	3
ACC 122	Principles of Accounting II	3
ACC 131	QuickBooks Software	3
COM 101	Fundamentals of Speaking	3
BMG 111	Business Law I	3
ACC 110	Payroll Accounting	2
Semester Total		17
Semester 3		
Nat. Sci.	Elective(s)	3
Arts/Human.	Elective(s)	3
BMG 265	Business Statistics	3
ACC 213	Intermediate Accounting	3
ECO 211	Principles of Economics I	3
Semester Total		15
Semester 4		
ACC 214	Intermediate Accounting II	3
BMG 207	Business Communication	3
ACC 225	Managerial Cost Accounting	3
ECO 222	Principles of Economics II	3
ENG 111	Composition I	4
Semester Total		16
Program Totals		64

Secondary / Post-Secondary Program Alignment

Automotive Services

HIGH SCHOOL COURSE SEQUENCE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English 9 Algebra Science Social Studies Health/ Physical Ed Foreign Language Choice of Electives: Visual/Performing/Applied Arts	English 10 Math Science Social Studies Foreign Language Choice of Electives:	English 11 Math Social Studies Science Collision Repair & Refinishing I	English 12 Math Social Studies Collision Repair & Refinishing II

WASHTENAW COMMUNITY COLLEGE

Transportation Technologies, Auto Body Concentration

Associate in Applied Science

Semester 1		
ABR 111	Introduction to Auto Body Repair	4
ABR 112	Introduction to Automotive Refinishing	4
ABR 114	Applied Auto Body Welding	2
ABR 119	The Art of Metal Shaping	2
Writing/Comp.	Elective	3
Semester Total		15
Semester 2		
ABR 123	Technical Auto Body Repair	4
ABR 124	Technical Automotive Refinishing	4
ABR 140	Aluminum Welding for Automotive Applications	4
Speech/Comp.	Elective	3
Math	Elective	3
Semester Total		18
Semester 3		
ASV 130	Automotive Maintenance	4
Rest. Elect	Restricted Elective(s): ABR 116, ABR 130, ABR 209, ABR 231, ASV 131, MST 106, or MST 230	4
Soc. Sci.	Elective	3
Arts/Hum	Elective	3
Semester Total		14
Semester 4		
ABR 113	Estimating and Shop Operations	4
ABR 201	Lightweighting Composite Repair	4
Rest. Elect	Restricted Elective(s): ABR 116, ABR 130, ABR 209, ABR 231, ASV 131, MST 106, or MST 230	4
Nat. Science	Elective	3
Semester Total		15
Program Totals		60

Secondary / Post-Secondary Program Alignment

Automotive Technologies HIGH SCHOOL COURSE SEQUENCE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English 9 Algebra Science I (311) Career Prep & Expo (905) Basic Phys Ed (612) World History (410)	American Experience (056) Public Speaking Geometry Science II (313) U.S. History (422) Business Service Tech I	Literature & Society (060) Composition (023) U.S. Government (445) Integrated Trigonometry (221) Applied Physics (331) Auto Tech I (937)	English Elective Sociology (435) Auto Tech II (945) Accounting I (524)

WASHTENAW COMMUNITY COLLEGE Transportation Technologies, Auto Service Concentration

Associate in Applied Science

Semester 1		
ASV 130	Automotive Maintenance	4
ASV 131	Automotive Electrical	4
Math	Elective	3
Writing	Elective	3
ABR 114	Applied Auto Body Welding	2
Semester Total		16
Semester 2		
ASV 132	Automotive Engines	4
ASV 133	Automotive Fuel	4
ASV 134	Automotive Transmission	4
ABR 140	Aluminum Welding for Automotive Applications	4
Restrict. Elect.	Choose from: ABR 111, ASV 135, ASV 174, ASV 257, ASV 266, ASV 277, ASV 279, CSS 200, CSS 205, CSS 285, CST 185, MST 110	2
Semester Total		18
Semester 3		
ASV 254	Suspension and Steering	2
ASV 251	Engine Diagnosis and Repair	2
ASV 256	Electrical and Electronic Systems	4
Writ. or Comm.	Writing/Composition or Communication	3
Arts/Hum	Elective	3
Semester Total		14
Semester 4		
Nat. Sci	Elective	3
Soc. Sci	Elective	3
ASV 258	Engine Drivability	2
ASV 255	Brakes	2
ASV 266	Advanced Transmissions	2
Restrict. Elect.	Choose from: ABR 111, ASV 135, ASV 174, ASV 257, ASV 266, ASV 277, ASV 279, CSS 200, CSS 205, CSS 285, CST 185, MST 110	2
Semester Total		14
Program Totals		62

Secondary / Post-Secondary Program Alignment

Business

HIGH SCHOOL COURSE SEQUENCE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English 9 Speech Art or Music or Graphics Biology Algebra Non Western Civilization Law P.E. Fitness	English 10 Physical or Earth Science Geometry Western Civilization P.E. Elective	Literature Chemistry <i>or Elective</i> Algebra 3/4 <i>or Elective</i> U.S. History Computer Applications 1	English Elective Physics <i>or Elective</i> Math Analysis <i>or Elective</i> U.S. Government Business

WASHTENAW COMMUNITY COLLEGE

Business Administration

Associate in Arts Degree

Semester 1		
ENG 111	Composition I	4
Math	Select one of MTH 125, MTH 160 or MTH 176	4
BMG 140	Introduction to Business	3
Nat. Sci.	Elective(s)	3
Semester Total		14
Semester 2		
CIS 110	Introduction to Computer Information Systems	3
Writ. or Comm.	Writing/Composition or Communication	3
Arts/Human.	Elective(s)	3
BMG 207	Business Communication	3
ACC 111	Principles of Accounting I	3
Semester Total		15
Semester 3		
ACC 122	Principles of Accounting II	3
Soc. Sci.	Elective(s)	3
BMG 265	Business Statistics	3
ECO 211	Principles of Economics I	3
BMG 111	Business Law I	3
Semester Total		15
Semester 4		
Arts/Human.	Elective(s)	3
ECO 222	Principles of Economics II	3
Nat. Sci.	Elective(s)	3 - 4
Elective(s)	Elective(s) to reach a minimum of 60 credits. It is recommended students complete one or more of the following: BMG 181, BMG 230, BMG 250	6 - 7
Semester Total		16
Program Totals		60

Additional Program Opportunity: *Accounting Associate Degree*

Please see the current Washtenaw Community College catalog for up-to-date program requirements.

Secondary / Post-Secondary Program Alignment

Computer Programming HIGH SCHOOL COURSE SEQUENCE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English 9 Algebra (211) or Integrated Algebra A (216) Science I (311) Career Prep & Expo (905) Basic Phys Ed (612) World History (410)	American Experience (056) Public Speaking Integrated Geometry or Integrated Algebra B (217) Science II (313) U.S. History (422) Public Speaking	Literature & Society (060) Composition (023) U.S. Government (445) Business Service Technology I (526) Basic Art (615) Computer Programming	English Elective Visual Imaging Technology (924) Computer Programming

WASHTENAW COMMUNITY COLLEGE Information Systems: Programming in C++

Associate in Science

Semester 1		
Natural Science	Elective(s)	3
Writ. or Comm.	Writing/Composition or Communication	3
CPS 171	Introduction to Programming with C++	4
ENG 111	Composition I	4
Semester Total		14
Semester 2		
Arts/Human.	Elective(s)	3
CIS 120	Linux/UNIX I: Fundamentals	3
CPS 271	Object Features of C++	4
Soc. Sci.	Elective(s)	3
Math	MTH 176 or higher 4 credit math course	4
Semester Total		17
Semester 3		
Nat. Sci. w/Lab	Elective(s)	3
CPS 276	Web Programming Using MySQL and PHP	4
CPS 272	Data Structures with C++	4
Soc. Sci.	Elective(s)	3
Semester Total		14
Semester 4		
Arts/Human.	Elective(s)	3
Res. Elective(s)	CIS/CPS electives	7
CPS 298	Professional Team Programming	4
General Ed.	Elective (0-1 credits) to reach a minimum of 30 Gen. Ed. credits	1
Semester Total		15
Program Totals		60

Please see the current Washtenaw Community College catalog for up-to-date program requirements.

Secondary / Post-Secondary Program Alignment

Graphic & Printing Technology HIGH SCHOOL COURSE SEQUENCE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English 9 Algebra I World History/Geography Biology World Language Phys Ed/Health	English 10 Geometry U.S. History/Geography Physics or Chemistry World Language Visual/Performing/Applied Arts	English 11 Algebra II Civics/Economics Visual Imaging Technology I Elective Visual Imaging Technology II Elective	English 12 Math Credit Science Credit Visual Imaging Technology III Elective

WASHTENAW COMMUNITY COLLEGE

Graphic Design

Associate in Applied Science

Semester 1		
ENG 111	Composition I	4
GDT 101	History of Graphic Design	3
GDT 104	Introduction to Graphic Design	4
WEB 115	Interface Design I	4
Soc. Sci.	Elective(s)	3
Semester Total		18
Semester 2		
Math	Elective(s)	3
Restrict Elect	Elective(s); GDT 106 or GDT 108 may be applied	3
GDT 100	Typography I	4
GDT 112	Principles and Problem-Solving in Graphic Design	4
Semester Total		14
Semester 3		
GDT 220	Publication Design	4
GDT 215	Typography II	4
GDT 239	Imaging and Illustration	4
WEB 215	Interface Design II	4
Semester Total		16
Semester 4		
GDT 252	Advanced Digital Studio	4
GDT 290	Professional Practices	4
Nat. Sci.	Elective(s)	3
COM 101	Fundamentals of Speaking	3
Restrict Elect	Elective(s); GDT 106 or GDT 108 may be applied	3
Semester Total		17
Program Totals		65

Please see the current Washtenaw Community College catalog for up-to-date program requirements.

Secondary / Post-Secondary Program Alignment

Radio & TV Broadcasting Technology HIGH SCHOOL COURSE SEQUENCE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English 9 Algebra I World History/Geography Biology World Language Phys Ed/Health	English 10 Geometry U.S. History/Geography Physics or Chemistry World Language Visual/Performing/Applied Arts	English 11 Algebra II Civics/Economics Radio & TV Broadcasting	English 12 Math Credit Science Credit Radio & TV Broadcasting

WASHTENAW COMMUNITY COLLEGE Digital Video Production

Associate in Arts

Semester 1		
PHO 111	Photography I	4
ENG 111	Composition I	4
Restrict. Elective	FLM 120 or FLM 150 or FLM 185	3
VID 105	Foundations in Digital Video I	4
Semester Total		15
Semester 2		
FLM 160	American Film	3
VID 125	Foundations in Digital Video II	4
VID 270	Documentary Video Production I	3
Arts/Humanities	Elective(s) (not FLM)	3
Math	Elective(s)	3
Semester Total		16
Semester 3		
Writing/Comm.	Writing/Composition or Communication	3
Restrict. Elective	VID 210 or VID 240	3
VID 276	Video Graphics I	3
Natural Science	Elective(s)	3
Soc. Sci.	Elective(s)	3
Semester Total		15
Semester 4		
Restrict. Elective	VID 275 or VID elective	3
Nat. Sci. w/Lab	Elective(s)	3
Soc. Sci.	Elective(s)	3
VID 203	Commercial Video Production	3
VID 295	Portfolio and Project Seminar	3
Semester Total		15
Program Totals		61

Please see the current Washtenaw Community College catalog for up-to-date program requirements.

Secondary / Post-Secondary Program Alignment

Digital Media Arts

HIGH SCHOOL COURSE SEQUENCE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English 9 Algebra I World History/Geography Biology World Language Phys Ed/Health	English 10 Geometry U.S. History/Geography Physics or Chemistry World Language Visual/Performing/Applied Arts	English 11 Algebra II Civics/Economics Web I Elective	English 12 Math Credit Science Credit Web II Elective

WASHTENAW COMMUNITY COLLEGE

Web Design and Development

Associate in Applied Science

Semester 1		
Writing/Comp.	Writing/Composition	3
	Certificate Course 1	4
Rest. Elective(s)	ANI, CIS, CPS, ENG 107, ENG 209, GDT, PHO, WEB	4
Elective(s)	Open elective(s)	3-4
Arts/Human.	Elective(s)*	3
Semester Total		17
Semester 2		
	Certificate Course 2	4
Rest. Elective(s)	ANI, CIS, CPS, ENG 107, ENG 209, GDT, PHO, WEB	4
Math	Elective(s)	3
Social Science	Elective(s)	3
Semester Total		14
Semester 3		
Nat. Sci.	Elective(s)	3
Rest. Elective(s)	ANI, CIS, CPS, ENG 107, ENG 209, GDT, PHO, WEB	4
WEB Elective(s)	Complete a course not in your chosen certificate	4
	Certificate Course 3	3-4
Semester Total		14
Semester 4		
COM 101	Fundamentals of Speaking	3
Rest. Elective(s)	ANI, CIS, CPS, ENG 107, ENG 209, GDT, PHO, WEB	4
WEB Elective(s)	Complete a course not in your chosen certificate	4
Elective(s)	Open elective(s) to reach a minimum of 60 credits	4
Semester Total		15
Program Totals		60

Please see the current Washtenaw Community College catalog for up-to-date program requirements.

Secondary / Post-Secondary Program Alignment

Health Science Technology HIGH SCHOOL COURSE SEQUENCE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English 9 Speech Art or Music or Graphics Biology* Algebra * Non Western Civilization Law P.E. / Fitness	English 10 Physical or Earth Science Geometry Western Civilization P.E. Elective Computer Applications 1	Literature Chemistry* Algebra 3/4 or Elective U.S. History Health Sciences Technology Health Sciences Internship	English Elective Physics or Elective Math Analysis or Elective U.S. Government Health Sciences Technology Health Sciences Internship

WASHTENAW COMMUNITY COLLEGE

Health Care Foundations *

Certificate

* Please see the WCC website for other programs and detailed admissions requirements.

www.wccnet.edu/health

Semester 1		
Course #	Course Title:	Credit Hours
HCFELEC1	Required Elective 1: BIO 101, BIO 102, 109, 111	4
HCFELEC2	Required Elective 2: COM 101, COM 102 or COM 200	3
ENG 111	Composition I	4
HSC 101	Healthcare Terminology	1
HSC 131	CPR/AED for the Professional Rescuer and First Aid	1
Semester Total		13
Semester 2		
Course #	Course Title:	Credit Hours
HCFELEC3	Required Elective 3: MTH 125, MTH 160, MTH 169 or any Math Level 4 or higher course	4
HCFELEC4	Required Elective 4: HSC 100 or HSC 103 or HSC 165 or RAD 100	1 - 4
PHL 244	Ethical and Legal Issues in Health Care	3
HCFELEC5	PSY 100, PSY 206 or SOC 100	3
Semester Total		11
Program Totals		24

* Please see the WCC website for current program and detailed admissions requirements and course information.

www.wccnet.edu/health

Additional Program Opportunities: *Dental Assisting Certificate, Health Program Preparations Associate in Science Degree, Medical Assisting Certificate, Medical Billing and Coding Certificate, Nursing Associate in Applied Science Degree, Physical Therapist Assistant Associate in Applied Science Degree, Radiography Associate in Applied Science Degree, Sterile Processing Certificate, Surgical Technology Associate in Applied Science Degree*

Please see the current Washtenaw Community College catalog for up-to-date program requirements.

Secondary / Post-Secondary Program Alignment

Mechatronics

HIGH SCHOOL COURSE SEQUENCE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English 9 Algebra I World History/Geography Biology World Language Phys Ed/Health	English 10 Geometry U.S. History/Geography Physics or Chemistry World Language Visual/Performing/Applied Arts	English 11 Algebra II Civics/Economics Mechatronics	English 12 Math Credit Science Credit Mechatronics

WASHTENAW COMMUNITY COLLEGE

Mechatronics –Robotics and Automated Systems

Associate in Applied Science

Semester 1		
MEC 101	Blueprint Reading for Manufacturing	2
MEC 105	Pneumatics and Hydraulics in Fluid Power	4
ROB 101	Robotics I - I	2
ROB 110	Robotics I - II	2
ELE 111	Electrical Fundamentals	4
Semester Total		14
Semester 2		
ELE 211	Basic Electronics	4
NCT 100	Foundation Concepts for Manufacturing (CNC)	3
ROB 212	Robotics II	4
Math	Elective(s)	3
Semester Total		14
Semester 3		
NCT 120	Introduction to 2D CAD CAM Programming and Applications	2
Writing/Comp.	Writing/Composition	3
Nat. Sci.	Elective(s)	3
Semester Total		8
Semester 4		
Social Science	Elective(s)	3
Speech/Comp.	Elective(s)	3
ELE 224	Programmable Controllers (PLCs) I	4
ROB 221	Robotics III	4
Semester Total		14
Semester 5		
ELE 254	Programmable Controllers (PLCs) II	4
Art/Humanities	Elective(s)	3
MEC 224	Robotics IV	4
MEC 201	Mechanisms	2
Semester Total		13
Program Totals	Program Totals	63

Please see the current Washtenaw Community College catalog for up-to-date program requirements.

Secondary / Post-Secondary Program Alignment

Welding

HIGH SCHOOL COURSE SEQUENCE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English 9 Algebra I World History/Geography Biology World Language Phys Ed/Health	English 10 Geometry U.S. History/Geography Physics or Chemistry World Language Visual/Performing/Applied Arts	English 11 Algebra II Civics/Economics Welding	English 12 Math Credit Science Credit Welding

WASHTENAW COMMUNITY COLLEGE

Advanced Manufacturing (CNC) – Machine Tool Setup, Operation and Programming

Associate in Applied Science

Semester 1		
Math	Elective(s)	3
MEC 101	Blueprint Reading for Manufacturing	2
NCT 100	Foundation Concepts for Manufacturing (CNC)	3
NCT 120	Introduction to 2D CAD CAM Programming and Applications	2
Art/Humanities	Elective(s)	3
Semester Total		13
Semester 2		
MEC 100	Materials and Processes	3
NCT 101	Introduction to Computerized Machining (CNC) – I	2
NCT 110	Introduction to Computerized Machining (CNC) – II	2
Rest. Elective(s)	Choose from: ELE, MEC, NCT, ROB	2
Nat. Science	Elective(s)	3
Semester Total		12
Semester 3		
NCT 123	2D CAD CAM CNC Programming for Mills and Lathes	2
Rest. Elective(s)	Choose from: ELE, MEC, NCT, ROB	2
Speech/Comp.	Elective(s)	3
Social Science	Elective(s)	3
Writing/Comp.	Writing/Composition	3
Semester Total		13
Semester 4		
ELE 111	Electrical Fundamentals	4
MEC 201	Mechanisms	2
NCT 121	Manual Programming and NC Tool Operation	4
NCT 201	Geometric Dimensioning and Tolerancing (GD&T)	2
Semester Total		12
Semester 5		
NCT 221	Advanced Manual Programming and NC Tool Operation	4
NCT 244	Advanced Manufacturing Capstone (CNC)	3
WAF 103	Introduction to Gas Tungsten Arc Welding	2
Rest. Elective(s)	Choose from: ELE, MEC, NCT, ROB	3
Semester Total		12
Program Totals		62

Conditions & Requirements

1. Students must meet admissions requirements of the college.
 - Students can apply online for free at: <https://www.wccnet.edu/start-now/>
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 2023 and earn credit at Washtenaw Community College by the end of Fall semester 2025. Exception: Students entering the Nursing Program must meet program requirements at the time of entry into the program. Please see website for information: www.wccnet.edu/health
2. All federal, state, and accreditation mandates supersedes this articulation agreement.

How to apply for articulated credit

1. Secondary instructors can prepare students' performance records and submit it directly to WCC through [CATEMA](#).
2. Students must also create a [CATEMA](#) account and enroll in their instructor's course through CATEMA.
3. Students can apply for articulated credit within 24 months following high school graduation by contacting transcripteval@wccnet.edu.