

**Articulation Agreement**  
**Between**  
**Wayne State University & Washtenaw Community College (WCC)**  
**Linking Washtenaw Community College**  
Associate of Applied Science (A.A.P) with Michigan Transfer Agreement (MTA) in Welding  
Technology  
**With Wayne State University (WSU)**  
Bachelor of Science (B.S.) in Welding and Metallurgical Engineering Technology  
Catalog Year 2020-21

This agreement made this \_\_\_\_\_ day of \_\_\_\_\_, 2020 is by and between Wayne State University (*WSU*) and Washtenaw Community College (*WCC*).

Wayne State University and Washtenaw Community College wish and intend by this Agreement to set forth the terms and conditions of engaging in an educational program to facilitate the seamless transfer of students who earn an Associate of Applied Science in Welding Technology with the Michigan Transfer Agreement (MTA) endorsement to complete a Bachelor of Science in Welding and Metallurgical Engineering Technology from Wayne State University, College of Engineering.

**Article I**  
**Agreement on Program Integrity**

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Wayne State University and Washtenaw Community College will maintain the integrity of their separate programs and enter into this agreement as equal and cooperating partner institutions.

**Article II**  
**Agreement on Principle**

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This agreement is intended to provide a smooth and seamless curriculum transition for Washtenaw Community College students that transfer to Wayne State University to earn a bachelor degree from the College of Engineering. The agreement is designed for students who follow a prescribed plan of study leading to an Associate of Applied Science in Welding Technology with the Michigan Transfer Agreement (MTA) endorsement. The credits transferred from the outlined appendices to this document, will be included in the total credit hours required for the Wayne State University baccalaureate degree. All other standard admission, curriculum, and graduation requirements of WCC and WSU must also be satisfied.

**Article III**  
**Agreement of Program Articulation**

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Wayne State University and Washtenaw Community College agree that any student, who has earned the aforementioned Associate of Applied Science in Welding Technology with MTA endorsement, may transfer the credits from their program to the WSU College of Engineering toward the aforementioned Bachelor of Science degree.

**This agreement specifically allows the transfer of up to eighty-seven (87) credits from Washtenaw Community College to WSU. This is beyond the currently stipulated sixty-four (64) credits that was approved by the WSU Board of Governors. The purpose of allowing students to transfer additional credits is to enable them to complete the A.A.S. in Welding Technology with MTA endorsement with a minimal loss of credit and maximize transfer credits toward their B.S. degree.**

The Bachelor's degree requirements for students who follow this articulation agreement are outlined on the Curriculum Guide (Attachment A).

#### **Article IV Agreement on Student Support**

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WSU and WCC agree to track the progress and success of articulation participants. Responsibility for College of Engineering in conjunction with the WSU Transfer Student Success Center (TSSC).

#### **Article V Agreement on Communication**

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WSU and WCC agree to cooperate in communication with each other and with common and respective publics concerning the established relationships between the two institutions. Communication will include the development of various kinds of publications to inform those who might benefit from the opportunities provided by this articulation agreement. The appropriate faculty and staff in both institutions will share the information in this agreement with interested and qualified students. Both institutions will provide academic advising to students and prospective students. Joint efforts in marketing the program and student recruiting will be pursued.

Both institution further agree to communicate annually concerning curriculum changes that may affect the agreed upon program relationship. Responsibility for communication related to this agreement will rest with the individuals appointed under Article VI.

#### **Article VI Agreement and Review Body Procedures**

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Each institution will appoint one or more faculty administrators to act as agents for the implementation of this agreement, and communicate changes to respective faculty members, advisors, and others to whom the information is pertinent. Responsibility for the oversight of this agreement rests with the respected academic departments at both institutions.

### **Article VII Regarding Independent Relationship**

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In the performance of their respective duties and obligations under this Agreement, each party is an independent contractor and neither is the agent, employee, or servant of the other, and each is responsible only for its own conduct. Each institution is solely responsible for the development and design of its own curriculum. Changes on the part of either party will/may necessitate review of this document.

### **Article VIII Agreement not to Discriminate**

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Each institution covenants and agrees that it does not discriminate on the basis of race, creed, color, age, sex, or national origin and it complies with the Americans with Disabilities Act of 1990, and that it does not discriminate on the basis of “physical or mental handicap” except where there exists a bona fide academic qualification.

Each party shall be separately responsible for compliance with all federal and state laws, including nondiscrimination laws and all applicable sections of the Michigan Handicapper’s Civil Rights Act. Illegal discrimination by either party may be considered a material breach of this Agreement.

### **Article IX Entire Agreement**

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This Agreement constitutes the entire agreement between the parties, and all prior discussions, agreements, and understandings, whether verbal or in writing, are hereby merged into this Agreement.

### **Article X Amendment/Modifications/or Terminations Provision**

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Each institution agrees to the terms of this Agreement. No amendment or modification to this Agreement, including any modification or amendment of this paragraph, shall be effective unless the same is in writing and signed by all parties or their Successors.

This cooperative arrangement will be in effect immediately upon signature and will be subject to review for continuance after a period of five (5) years. Renewal will be for five years unless either party notifies the other in writing by December 31 of the year preceding the last year of the agreement of their intention to renegotiate or of non-renewal of this agreement.

This Agreement is effective immediately upon approval by WSU and WCC and shall remain in effect unless terminated by either party providing six months advance written notice. In the event that this Agreement must be terminated, all students currently enrolled in the program shall be allowed to complete the program as described.

Signatories for Wayne State University:



Laurie M. Lauzon Clabo, PhD, RN, FAAN  
Interim Provost and  
Sr. Vice President for Academic Affairs

Farshad Fotouhi

Digitally signed by Farshad Fotouhi  
DN: cn=Farshad Fotouhi, o=Wayne State  
University, ou=College of Engineering,  
email=fotouhi@wayne.edu, c=US  
Date: 2020.06.04 08:49:36-04'00'

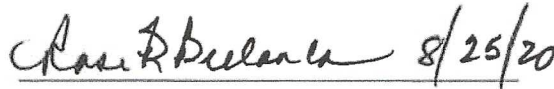
Farshad Fotouhi, Ph.D.  
Dean, College of Engineering

Ece Yaprak,  
Professor and Chair

DN: cn=Ece Yaprak, Professor and Chair, o=Wayne  
State University, ou=Engineering Technology,  
email=ab2544@wayne.edu, c=US  
Date: 2020.06.03 16:39:51-04'00'

Ece Yaprak, Ph.D.  
Professor and Chair of the Engineering  
Technology Division

Signatories for Washtenaw Community  
College:



Rose Bellanca, Ed.D.  
President

Kimberly Hurns

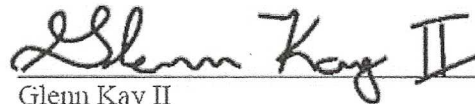
7/17/2020

Kimberly Hurns, D.M.  
Vice President for Instruction

Jimmie Baber

7/15/20

Jimmie Baber III, Ed.D  
Dean, Advanced Technologies & Public  
Service Careers



7/14/20

Glenn Kay II  
Department Chair of Welding and  
Fabrication

Date: \_\_\_\_\_

Date: \_\_\_\_\_

FORM APPROVED  
01 JUN 2020  
OFFICE OF THE  
GENERAL COUNSEL

## Engineering Technology –Welding and Metallurgical Articulation Guide

Washtenaw Community College – Associate in Applied Science (with MTA) in Welding Technology

Wayne State University - Bachelor of Science in Engineering Technology, Welding and Metallurgical

Catalog Year 2020-2021

### WCC Degree and Michigan Transfer Agreement (MTA) Requirements

English Composition (see MTA requirements)	3
English Composition or Speech (see MTA)	3
*MTH 180 Precalculus	5
*CEM 101 Intro to Chemistry	3
*PHY 111 General Physics	4
Social Science (see MTA requirements)	3
Social Science (see MTA requirements)	3
*PHL 205 Ethics	3
Humanities (see MTA requirements)	3
<b>Subtotal</b>	<b>30</b>

*\*meets MTA requirements AND required for WSU degree program (prerequisites may be required per internal placement exam).*

### Additional WSU Requirements

MTH 191 Calculus	5
ELE 111 Electrical Fundamentals	4
<b>Subtotal</b>	<b>9</b>

### Welding Technology Requirements

NCT 120 Intro to 2D CAD CAM Program and App	2
WAF 106 Welding Print Reading	3
WAF 109 Welding Safety and OSHA regulations	2
WAF 125 Intro to Welding Processes I	2
WAF 126 Intro to Welding Processes II	2
WAF 130 Shielded Metal Arc Welding	4
WAF 131 Thermal Cutting, Gouging & Weld Repair	3
WAF 139 Basic Metal fabrication	3
WAF 140 Inspection and Testing	3
WAF 230 Advanced Shielded Metal Arc Welding	4
WAF 231 Gas Tungsten Welding	4
WAF 232 Semi-Automatic Welding Process	4
WAF 150 Automated Welding and Cutting	3
WAF 210 Welding Metallurgy	3
WAF 233 Submerged Arc and Flux Arc Welding	3
WAF 239 Advanced Metal Fabrication	3
<b>Subtotal</b>	<b>48</b>

### Transfer to WSU as:

MTA-English Composition	3
MTA-English Composition or Speech	3
MATH 1800 Elementary Function	5
CHM 1020 General Chemistry	4
PHY 2130/1 General Physics + Lab	4
MTA-Social Science	3
MTA-Social Science	3
PHI 1120 Professional Ethics	3
MTA-Humanities	3
<b>Transfer Subtotal</b>	<b>30</b>

### Transfer to WSU as:

ET/MAT 3430 Applied Calculus	5
EET 2000 Electrical Principles	4
<b>Subtotal</b>	<b>9</b>

### Transfers to WSU as:

ET 2140 Engineering Graphic	2
ET 2XXX Lower Division Technical	3
ET 2XXX Lower Division Technical	2
ET 2XXX Lower Division Technical	2
ET 2XXX Lower Division Technical	2
ET 2XXX Lower Division Technical	4
ET 2XXX Lower Division Technical	3
ET 2XXX Lower Division Technical	3
ET 2XXX Lower Division Technical	3
ET 2XXX Elective	4
ET 2XXX Elective	4
ET 2XXX Elective	4
WMT 5800 Welding Automation and Robotics	3
ET 2200 Engineering Materials	3
ET 3XXX Upper Division Elective	3
MIT 3500 Manufacturing Process Lab	3
<b>Transfer Subtotal</b>	<b>48</b>

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Catalog Year 2020-2021

### Engineering Technology

Engineering technologists (ET) create the objects we depend on, from smartphones to suspension bridges and everything in between. While traditional engineers work mainly in the conceptual stage of product development, ET graduates are hands-on, building and implementing new technologies in testing labs and in the field. They can apply their abilities in using technical equipment, selling technical products, serving as manufacturers' technical representatives, supervising construction projects and manufacturing processes, and more. A degree in engineering technology will give you marketable skills in this practical, applied science.

Bachelor of Science in Mechanical Engineering Technology (BSMCT) Program is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

### AGRADE Program

AGRADE is Wayne State University's Accelerated Graduate Enrollment program. It is designed to provide our top students with a jump-start on graduate school. Students, in conjunction with their undergraduate and graduate advisors, develop a plan of work that counts up to 16 credits

Michigan Transfer Agreement (MTA)	30
Welding Technology degree requirements	48
Additional WSU Requirements	<u>9</u>
<b>Total Transferable Credits from WCC</b>	<b>87</b>

WSU Degree Requirements	46
<b>Total B.S. Degree Requirements</b>	<b>133</b>

**MSET Degree** **23**

### Accelerated Graduate Enrollment

*Eligible student with cumulative GPA of 3.4 or above can apply up to 16 credits to the Master of Science in Engineering Technology (MSET).*

**Total BS and MSET Degrees** **156**

### Bachelor in Engineering Technology Welding and Metallurgical Requirements

#### Major Cores

ET 3030 Statics	3
MCT 3100 Mechanics of Materials	3
ET 3850 Engineering Statistics	3
ET 3870 Engineering Economic Analysis	3
WMT 3200 Thermodynamics of W&M	4
ME 3452 Physical Metallurgy LL	4
WWT 4400 Engineering Alloys	3
ME 4451 Mechanical Metallurgy LL	4
ME 4453 Advanced Welding Metallurgy LL	3
WMT 4300 Welding Design LL	3
*ET 5870 Engineering Project Management	3
ET 4999 Senior Project	3
<u>Upper Division Elective</u>	
WMT 4500 Failure Fracture	3
*ME 5995 Additive Manufacturing	4
<b>Subtotal</b>	<b>46</b>

\*can be used toward MSET degree (must see WSU advisor)

### Tentative Plan of Study - Full-time, Four Semesters

#### Semester One (6 credits) – spring/summer

ET 3850 Engineering Statics	3
ET 3870 Engineering Economic	3

#### Semester One (14 credits) - fall

ET 3030 Statics	3
ET 5870 Engineering Project Mgt.	3
ME 3452 Physical Metallurgy	4
WMT 3200 Thermodynamics	4

#### Semester Two (13 credits) - winter

MCT 3100 Mechanics of Materials	3
ME 4453 Advanced Welding	3
ME 5995 Additive Manufacturing	4
WMT 4400 Engineering Alloys	3

#### Semester Three (13 credits) -fall

ME 4451 Mechanical Metallurgy	4
WMT 4300 Welding Design LL	3
WMT 4500 Failure Fracture	3
ET 4999 Senior Project	3