

Articulation Agreement
Between
Wayne State University & Washtenaw Community College (WCC)
Linking Washtenaw Community College
Any Associate (A.A., A.S. A.A.P) with Michigan Transfer Agreement (MTA)
With Wayne State University (WSU)
Bachelor of Science (B.S.) in Mechanical Engineering Technology, Electrical/Electronic
Engineering Technology, or Electromechanical 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 any Associate with the Michigan Transfer Agreement (MTA) endorsement to complete a Bachelor of Science in Mechanical Engineering Technology, Electrical/Electronic Engineering Technology, or Electromechanical Engineering Technology in from Wayne State University, College of Engineering.

Article I
Agreement on Program Integrity

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

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 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

Wayne State University and Washtenaw Community College agree that any student, who has earned the aforementioned Associate Degree (A.A., A.S., A.A.S.) 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 seventy-six (76) 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 Associate Degree (A.A., A.S., A.A.S.) 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

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

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

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

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

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

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

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

Signatories for Washtenaw Community College:



Rose Bellanca, Ed.D.
President

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 08:50:23-04'00'

Farshad Fotouhi

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

Kimberly Hurns 7/17/2020

Kimberly Hurns, D.M.
Vice President for Instruction

Ece Yaprak,
Professor and Chair

DN: cn=Ece Yaprak, Professor and Chair, o=Wayne State University, ou=Engineering Technology, email=ah2544@wayne.edu, c=US
Date: 2020.06.03 16:38:10-04'00'

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

Jimmie Baber 7/15/20

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

Date: _____

Date: _____

FORM APPROVED
01 JUN 2020
OFFICE OF THE
GENERAL COUNSEL

Engineering Technology Articulation Guide

Washtenaw Community College – Any Associate Degree with MTA

Wayne State University - Bachelor of Science in Engineering Technology: Mechanical Engineering Technology, Electrical/Electronic Engineering Technology or Electromechanical Engineering Technology

Catalog Year 2020-2021

WCC Degree and Michigan Transfer Agreement (MTA)

Requirements

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

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

Additional WSU Requirements

MTH 191 Calculus	5
ENG 208 <u>or</u> 209 Technical Writing	3
PHY 122 General Physics II	4
ELE 111 Electrical Fundamentals	4
Subtotal	16

Lower Division Requirements

**Any combination of technical courses or credits under the subject of ASV, ABR, CMG, CON, CPS, EGT, ELE, FLP, FMA, HVA, MEC, MTT, MST, NCT, ROB, or WAF

Subtotal 21

***Courses can be used to earn certificate(s) or associate degree.*

Free Electives (up to max. 76 transfer credit)

Any 100-level or above course (see advisor)	0-9
Subtotal	0-9

Potential Electives (see advisor):

MEC 101 Blueprint Reading for Manufacturing	2
MEC 100 Materials and Processes	3

Transfer to WSU as:

MTA-English Composition	3
MTA-English Composition or Speech	3
MAT 1800 Elementary Functions	3
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 and Fine Arts	3
Transfer Subtotal	30

Transfer to WSU as:

ET/MAT 3430 Applied Calculus	5
ENG 3050 Technical Writing	3
PHY 2140/2141 Physics for Life Science	4
EET 2000 Electrical Principals	4
Transfer Subtotal	16

Transfers to WSU as:

Lower Division Technical Elective - 21 credits minimum for WSU degree requirement

Transfer Subtotal 21

Transfer to WSU as:

Free Electives	0-9
Transfer Subtotal	0-9

Transfer to WSU as:

ET 2140 Computer Graphics	2
ET 2200 Engineering Materials	3

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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 of coursework toward both the B.S. and M.S. degrees.

Michigan Transfer Agreement (MTA)	30
Additional WSU Requirements	16
Associate Major/Lower Division Electives	21
Free Electives (see Advisor for recommendations)	<u>3-9</u>
Total Transferable Credits from WCC	70-76

WSU Degree Requirements (min. 48)	48-54
Total BS Degree Requirements (min. 124)	130

MSET Degree **21**

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 **145**

Bachelor in Engineering Technology - Mechanical Engineering Technology Requirements

Math/Science/Degree Requirements

ET 2160 Computer Applications for ET	2
ET 3450 Appl Calc & Diff Equations	4
Subtotal	6

Mechanical Engineering Technology Core

*ET 2140 Computer Graphics	3
*ET 2200 Engineering Materials	3
ET 3030 Statics	3
ET 3050 Dynamics	3
ET 3850 Reliab & Engg Statistics	3
ET 3870 Engineering Economic Analysis	3
*ET 5870 Engineering Project Mgt.	3
MCT 3010 Instrumentation	3
MCT 3100 Mechanics of Material	3
MCT 3410 Kinematics & Dynamics of Machine	3
MCT 4150 Applied Thermodynamics	3
MCT 4180 Fluid Mechanics	3
MIT 3500 Manufacturing Process Lab	1
MIT 3520 Manufacturing Process Theory	2
*Upper Division Free Elective	3
<u>Focus Elective</u>	
Pick One: MCT 4400, *5210 or MIT 4700	3
ET 4999 Senior Project	3
Subtotal	48

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

+ Course equivalent at WCC

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Bachelor of Science in Electronic/Electrical 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 of coursework toward both the B.S. and M.S. degrees.

Michigan Transfer Agreement (MTA)	30
Additional WSU Requirements	16
Associate Major/Lower Division Electives	21
Free Electives (see Advisor for recommendations)	<u>3-9</u>
Total Transferable Credits from WCC	70-76

WSU Degree Requirements (min. 48)	<u>54</u>
Total BS Degree Total (min. 124)	124

MSET Degree **21**

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 (min. 147) **151**

Bachelor in Engineering Technology - Electrical/Electronic Engineering Technology Requirements

Math/Science/Degree Requirements

ET 2160 Computer Applications for ET	2
ET 3450 Appl Calc & Diff Equations	4
Subtotal	6

Electrical/Electronic Engineering Technology Core

ET 3850 Reliability & Engineering Statistics	3
ET 3870 Engineering Economic Analysis	3
*ET 5870 Engineering Project Management	3
EET 2100 Principles of Digital Design	3
EET 2720 Microprocessor Fundamentals	3
EET 3100 Adv Digital Design	3
EET 3150 Network Analysis	4
EET 3180 Analog Electronics	4
EET 3500 Electrical Machines/Power Systems	3
EET 3720 Mico & Programming Controllers	3
EET 3300 Applied Signal Processing	3
EET 4200 Control Systems	4
*EET Upper Division Technical Electives	6
ET 4999 Senior Project	3
Subtotal	48

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

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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 Electromechanical 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 of coursework toward both the B.S. and M.S. degrees.

Michigan Transfer Agreement (MTA)	30
Additional WSU Requirements	16
Associate Major/Lower Division Electives	21
Free Electives (see Advisor for recommendations)	<u>3-9</u>
Total Transferable Credits from WCC	70-76

WSU Degree Requirements (min. 48)	<u>54-57</u>
Total BS Degree Total (min. 124)	124

MSET Degree **18**

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 (min. 144) **148**

Bachelor in Engineering Technology - Electromechanical Engineering Technology Requirements

Math/Science/Degree Requirements

ET 2160 Computer Applications for ET	2
ET 3450 Appl Calc & Diff Equations	4
Subtotal	6

Electromechanical Engineering Technology Core

*ET 2140 Computer Graphics	3
ET 3030 Statics	3
ET 3050 Dynamics	3
ET 3850 Reliability & Engineering Statistics	3
*ET 5870 Engineering Project Management	3
EET 2100 Principles of Digital Design	3
EET 2720 Microprocessor Fundamentals	3
EET 3150 Network Analysis	4
EET 3500 Electrical Machines/Power Systems	3
EET 3720 Micro & Programming Controllers	3
EET 4200 Control Systems	4
MCT 3010 Instrumentation	3
MIT 3500 Manufacturing Processes Lab	1
*Upper Division Technical Electives	9
ET 4999 Senior Project	3
Subtotal	51

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

+ Course equivalent at WCC