

Articulation Agreement

Between

Monroe County Community College (MCCC)

Associate of Applied Science (AAS) in Product and Process Technology or Mechanical Engineering Technology with Michigan Transfer Agreement (MTA)

And

Wayne State University College of Engineering

Bachelor of Science (BS) in Mechanical Engineering Technology

This agreement made this 1st day of December 2020 is by and between Wayne State University (WSU) and Monroe County Community College (MCCC).

Wayne State University and Monroe County Community College intend by this Agreement to set forth the terms and conditions of engaging in an educational program, to facilitate the transfer of students who earn an Associate of Applied Science (AAS) in Product and Process Technology or Mechanical Engineering Technology with Michigan Transfer Agreement (MTA) endorsement from Monroe County Community College to earn a Bachelor of Science (BS) in Mechanical Engineering Technology from Wayne State University College of Engineering. Wayne State University and Monroe County Community College may be referred to herein as a (“Party”) and collectively (“Parties”).

Article I

Agreement on Program Integrity

The Parties will maintain the integrity of their separate academic programs and enter into this agreement as equal and cooperating partner institutions.

Article II

Agreement on Principle

This agreement between WSU and MCCC is intended to provide a smooth and seamless curriculum transition for MCCC students who transfer to Wayne State University to earn a Bachelor of Science in Mechanical Engineering Technology from the College of Engineering. The agreement is designed for students who follow a prescribed plan of study leading to the associate degree. The credits transferred from the associate degree, as outlined in the appendices to this document, will be included in the total credit hours required for the Wayne State University Bachelor of Science. All other standard admission, curriculum, and graduation requirements of WSU and MCCC must also be met.

Article III

Agreement of Program Articulation

The Parties agree that any student, who has earned the prescribed associate degree, may transfer the credits from their program to the WSU Bachelor of Science, as outlined in the attached appendices.

This agreement specifically allows the transfer of up to ninety (90) credits from Monroe County Community College to Wayne State University. This is beyond the currently stipulated sixty-four (64) credits approved by the WSU Board of Governors. The purpose of allowing MCCC students to transfer additional credits is to enable them to complete the associate and Michigan Transfer Agreement at MCCC in addition to completing the Bachelor of Science at WSU without duplication of coursework. The degree requirements for students who follow this articulation agreement are outlined in Attachment A.

Article IV Agreement on Student Support

The Parties agree to track the progress and success of articulation participants. Responsibility for this tracking rests with the WSU College of Engineering and Monroe County Community College.

Article V Agreement on Communication

The Parties 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.

The Parties 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 Administration at the WSU College of Engineering and Monroe County Community College.

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 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 party 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

The Parties agree 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 Agreement will be in effect immediately upon signature and will be subject to review for continuance after a period of four (4) years. Renewal will be for four 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. 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:

Signatories for Monroe County Community College:

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

Kojo Quartey, Ph.D., President

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

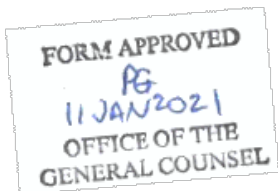
Grace Yackee, Ph.D., Vice President of
Instruction

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

Parmeshwar (Peter) Coomar, Dean of
Applied Sciences and Engineering
Technology Division

Date: _____

Date: _____



Engineering Technology -Mechanical Engineering Articulation Guide

Monroe County Community College – Associate of Applied Science (AAS) in Product and Process Technology or Mechanical Engineering Technology

Wayne State University - Bachelor of Science (BS) in Mechanical Engineering Technology

Catalog Year 2020-21

MCCC Degree and/or General Education/Michigan Transfer Agreement (MTA) Requirements

ENG 151 English Comp I	3
English Composition or Speech (see MTA)	3
*MATH 164 OR MATH157+159	4
*CHEM 150 Fundamental Chemistry	4
*PHY 151 General Physics + Lab	4
Social Science (see MTA requirements)	3
Social Science (see MTA requirements)	3
Humanities & Fine Arts (see MTA)	3
Humanities & Fine Arts (see MTA)	3
Subtotal	30

**meets MTA and/or MCCC requirement and specific requirement for WSU College of Engineering.*

Product and Process Technology Major Requirements

MECH 102 Manufacturing Process	4
MECH 103 Machining Basics and CNC	4
MATH 151 Intermediate Algebra	4
ELEC 125 Fundamentals of Electricity	3
MATL 101 Industrial Materials	3
MECH 104 CNC II	3
MECH 201 CAD/CAM I	3
MECH 131 Intro to Automated Manufacturing	3
MECH 105 CNC III	3
MECH 221 CAD/CAM II	3
MDTC 160 Mechanical Drafting CAD I	4
MDTC 226 Geo Dimensioning/Tolerancing	3
METC 220 Statics & Strength of Materials	4
MECH 231 CAD/CAD III	3
Restricted Electives (see MCCC requirements)	6
Subtotal	53

Additional WSU Requirements

PHYS 152 College Physics II	4
ENG 155 Technical Writing	3
MATH 171 Calculus 1	4
Subtotal	11

Transfer to WSU as:

ENG 1020 Intro to College Writing	3
MTA- English Composition/Communication	3
*MAT 1800 Elementary Functions	4
*CHM 1020 Fundamentals of Chemistry	4
*PHY 2130/1 Physics I + Lab	4
MTA-Social Science	3
MTA-Social Science	3
MTA- Humanities & Fine Arts	3
MTA- Humanities & Fine Arts	3
Transfer Subtotal	30

**meets MTA and/or MCCC requirement and specific requirement for WSU College of Engineering.*

Transfers to WSU as:

MIT 3520 Manufacturing Process Theory	4
MIT 3500 Manufacturing Processes Lab	4
ET 1XXX Technical Electives	4
EET 2000 Electrical Principles	3
ET 2200 Engineering Materials	3
MIT 1XXX Technical Electives	3
ET 1XXX Technical Electives	3
MCT 1XXX Technical Electives	3
ET 1XXX Technical Electives	3
ET 2XXX Technical Electives	3
ET 2140 Computer Graphics	4
ET 1XXX Technical Electives	3
ME 2420 Elem. Mechanics of Materials	4
MIT 4700 Computer Aided Manufacturing	3
ET 1XXX Technical Electives	6
Transfer Subtotal	53

Transfer to WSU as:

PHY 2140/1 General Physics II	4
ENG 3050 Technical Report Writing	3
ET 3430 Applied Calculus	4
Transfer Subtotal	11

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Catalog Year 2020-21

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 BS and MS degrees.

General Education/MTA	30
AAS Major Requirements	53
Additional Requirements	11
Total Transferable Credits from MCCC	94
WSU Degree Requirements	45
Total BS Degree Total	139

Bachelor of Science (B.S.) in Mechanical Engineering Technology Requirements

Math Requirements

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

Mechanical Engineering Technology Core

ET 3030 Statics	3
ET 3050 Dynamics	3
ET 3850 Relib & Engg Statistics	3
ET 3870 Engineering Economic Analysis	3
ET 5870 Engineering Project Mgt.	3
MCT 3010 Instrumentation	3
MCT 3100 Mechanical of Materials	3
MCT 3410 Kinematics & Dynamics of Machines	3
MCT 4150 Applied Thermodynamics	3
MCT 4180 Fluid Mechanics	3
ET 4999 Senior Project	3
PHI 1120 Professional Ethics	3
Free Elective (see WSU advisor)	3
Subtotal	39

Tentative Plan of Study (45 credits)

Spring/Summer

ET 3850
ET 3870

Fall

ET 2160
ET 3030
ET 3450
MCT 3010

Winter

ET 3050
MCT 3100
MCT 4150
Free Elective

Spring/Summer

ET 5870
PHI 1120

Fall

MCT3410
MCT 4180
ET 4999

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Transfer Agreement (MTA) Requirements

ENG 151 English Comp I	3
English Composition or Speech (<i>see MTA</i>)	3
*MATH 164 OR MATH157+159	4
*CHEM 1510 General College Chemistry	4
*PHY 151 General Physics + Lab	4
Social Science (<i>see MTA requirements</i>)	3
Social Science (<i>see MTA requirements</i>)	3
Humanities (<i>see MTA requirements</i>)	3
Humanities (<i>see MTA requirements</i>)	3
Subtotal	30

**meets MTA requirement and specific requirement for WSU College of Engineering.*

Mechanical Engineering Technology Major Requirements

MDTC 160 Mechanical Drafting and CAD I	4
MECH 102 Manufacturing Processes	4
MECH 103 Machining Basics and CNC	4
METC 100 Intro to Engineering and Technology	3
ELEC 125 Introduction to Electricity	3
METC 170 Intro to Parametric CAD/CATIA	3
MATH 160 Math App in Engineering Tech	2
METC 234 Thermodynamics and Fluid Sciences	4
MECH 111 Introduction to Fluid Power	3
MATL 101 Industrial Materials	3
METC 220 Statics & Strength of Materials	4
PHYS 152 College Physics II	4
Restricted Electives (<i>see MCCC requirements</i>)	6
Subtotal	47

Additional WSU Requirements

ENG 155 Technical Writing	3
MATH 171 Calculus 1	4
Subtotal	7

Transfer to WSU as

ENG 1020 Intro to College Writing	3
MTA- English Composition/Communication	3
*MAT 1800 Elementary Functions	4
*CHM 1020 Fundamentals of Chemistry	4
*PHY 2130/1 Physics I + Lab	4
MTA-Social Science	3
MTA-Social Science	3
MTA-Humanities	3
MTA-Humanities	3
Transfer Subtotal	30

**meets MTA requirement and specific requirement for WSU College of Engineering.*

Transfer to WSU as

ET 2140 Computer Graphics	4
MIT 3520 Manufacturing Process Theory	4
MIT 3500 Manufacturing Processes Lab	4
ET 1XXX Technical Electives	3
EET 2000 Electrical Principles	3
ET 1XXX Technical Electives	3
ET 1XXX Technical Electives	2
MCT 1XXX Technical Electives	4
ET 1XXX Technical Electives	3
ET 2200 Engineering Materials	3
ME 2420 Elem. Mechanics of Materials	4
PHY 2140/1 General Physics II	4
Restricted Electives (<i>see MCCC requirements</i>)	6
Transfer Subtotal	47

Transfer to WSU as:

ENG 3050 Technical Report Writing	3
ET 3430 Applied Calculus	4
Transfer Subtotal	7

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General Education/MTA	30
AAS Major Requirements	47
Additional Requirements	7
Total Transferable Credits from MCCC	84
WSU Degree Requirements	48
Total BS Degree Total	132

Bachelor of Science (BS) in Mechanical Engineering Technology Requirements

Math Requirements

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

Mechanical Engineering Technology Core

ET 3030 Statics	3
ET 3050 Dynamics	3
ET 3850 Relib & Engg Statistics	3
ET 3870 Engineering Economic Analysis	3
ET 5870 Engineering Project Mgt.	3
MCT 3010 Instrumentation	3
MCT 3100 Mechanical of Materials	3
MCT 3410 Kinematics & Dynamics of Machines	3
MCT 4150 Applied Thermodynamics	3
MCT 4180 Fluid Mechanics	3
ET 4999 Senior Project	3
PHI 1120 Professional Ethics	3
Focus Elective	3
Free Elective (see WSU advisor)	3
Subtotal	42

Tentative Plan of Study (48credits)

Spring/Summer

ET 3850
ET 3870

Fall

ET 2160
ET 3030
ET 3450
MCT 3010

Winter

ET 3050
MCT 3100
MCT 4150
Focus Elective

Spring/Summer

ET 5870
PHI 1120

Fall

MCT3410
MCT 4180
ET 4999
Free Elective