

BACHELOR'S DEGREE PROGRAM ARTICULATION AGREEMENT
Between Associate Degree Programs, St Clair County Community College and
the Division of Engineering Technology, College of Engineering, Wayne State University

This Agreement made this 26th day of August, 2005, is by and between Wayne State University (WSU) on behalf of its College of Engineering and St. Clair County Community College (SCCCC).

Whereas the parties wish and intend by this Agreement to set forth the terms and conditions of engaging in an educational program to facilitate the transfer of students who receive an associate's degree in an engineering technology or related program, as defined by WSU and listed in Appendix A, from St. Clair County Community College and want to pursue a Bachelor of Science in Engineering Technology (BSET) degree at WSU, the following articles apply.

Article I
Agreement on Program Integrity

WSU and SCCC will maintain the integrity of their separate programs and enter into this agreement as equal partner, cooperating institutions.

Article II
Agreement on Principle

This program articulation agreement between WSU and SCCC is intended to provide a smooth curriculum transition for students who choose to attend SCCC and transfer to WSU's Bachelor's Degree Program in Engineering Technology in the College of Engineering. This agreement is designed for students who receive an associate's degree in an engineering technology or related program from SCCC and want to pursue a Bachelor of Science in Engineering Technology (BSET) degree from WSU. The credits transferred from the SCCC associate degree program (up to a maximum of 64) will be included in the 128 credit hour requirement for the WSU program. All other standard admission, curriculum, and graduation requirements of SCCC and WSU must also be met. Appendices B, C, D describe these areas of agreement.

Article III
Agreement on Program Articulation

SCCCC and WSU agree that any student who has earned an associate's degree in an engineering technology or related program may transfer up to 64 program credits to the College of Engineering at WSU toward a Bachelor of Science in Engineering Technology. The bachelor's degree graduation requirements for students who follow this articulation agreement are as follows:

1. Students must complete an associate's degree in an engineering technology or related program from SCCCC with a cumulative grade point average of at least 2.5.
2. A minimum of 128 credits is required for a bachelor's degree, including those transferred from SCCCC. Courses remaining to be completed at WSU are noted in the appendices.
3. SCCCC students who have already begun a program described in this agreement, the provisions of which are subsequently changed by WSU, will be given time to complete the SCCCC portion of the transfer plan equal to the time that is given similarly situated students at WSU. In light of the part-time nature of many SCCCC students, however, such time period to complete a transfer plan already in progress will not be less than 2 years.

Article IV
Agreement on Student Support

WSU and SCCCC agree to track the progress and success of program participants. Responsibility for this tracking will be conducted through the Division of Engineering Technology of the College of Engineering at WSU. SCCCC and WSU also agree to collaborate on other student support services in order to foster student success.

Article V
Agreement on Communication

SCCCC and WSU 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 people who might benefit personally or professionally from the opportunities provided by a bachelor's degree program from the Division of Engineering Technology at WSU based on an associate degree earned at SCCCC. The appropriate faculty and staff in both institutions will share the information in this agreement with interested and qualified students, and both institutions will also provide academic counseling to students and prospective students. Institutional and joint efforts in marketing the program and student recruiting will be pursued.

SCCCC and WSU further agree to communicate annually concerning curriculum changes that may affect the agreed-upon relationships between programs at the respective colleges and to communicate any plans that might lead to future opportunities for program articulation between the two institutions. Responsibility for communication related to this agreement will rest with the Chair of the Division of Engineering Technology and the Curriculum and Articulation office at SCCCC.

Article VI
Maintenance and Review Body and Procedures

Each institution will appoint one or more faculty or administrators to act as agents for the implementation of this agreement, to speak for the institutions and to communicate changes to respective faculty members, advisors and others to whom the information is pertinent.

Responsibility for oversight of this agreement rests with the Curriculum and Articulation office at SCCC and the Chair of the Division of Engineering Technology and Associate Dean for Academic Affairs of the College of Engineering at WSU.

Article VII
Agreement 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; therefore, each is responsible only for its own conduct. Furthermore, each institution remains solely responsible for the development and design of its own curriculum. Curriculum changes on the part of WSU or SCCC 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 bonafide 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/Modification/ or Termination Provision

SCCC and WSU 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.

This cooperative arrangement will be in effect immediately upon signature and will be subject to review for continuance after a period of three (3) years. Renewal will be for three 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 program approval by WSU and SCCCC 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.

Signed

Wayne State University

St. Clair County Community College

Ralph Kummner, Dean
College of Engineering,

Paul Schmitt, Dean of Instruction
St. Clair County Community College

Nancy Barrett, Provost and Vice President for
Academic Affairs, Wayne State University

Gus Demas, Provost
St. Clair County Community College

Rose B. Bellanca, President
St. Clair County Community College

Appendix A

Community College Tech Program Transfer Eligibility

Program	CT	EET	EMT	MCT	MIT	PDT
Archi Construction Tech			yes	yes	yes	yes
Alternate Energy Tech		yes	yes	yes	yes	yes
Architectural Drafting			yes	yes	yes	yes
Architectural E T			yes	yes	yes	yes
Auto Body Design			yes	yes	yes	yes
Automobile Servicing			yes	yes	yes	yes
Automotive Tech			yes	yes	yes	yes
Aviation Flight Tech			yes	yes	yes	yes
Aviation Mechanic			yes	yes	yes	yes
CIM Tech			yes	yes	yes	yes
Civil Tech			yes	yes	yes	yes
Climate Control Tech			yes	yes	yes	yes
CNC Tech			yes	yes	yes	yes
Computer Aided Design			yes	yes	yes	yes
Computer Info Systems	yes	yes				
Construction Tech			yes	yes	yes	yes
Data Processing	yes					
Electrical Engg Tech		yes	yes			
Electrical Trades Tech		yes	yes			
Electrical/Electronic Tech		yes	yes			
Electromechanical E T		yes	yes	yes	yes	yes
Electron Commun Service	yes	yes	yes			
Electronic Tech		yes	yes			
Energy Technology		yes	yes	yes	yes	yes
Environmental Syst Tech			yes	yes	yes	yes
Fluid Power Tech			yes	yes	yes	yes
Heating & Cooling			yes	yes	yes	yes
HVAC Systems			yes	yes	yes	yes
Hydraulics & Pneum			yes	yes	yes	yes
Industrial Superv			yes	yes	yes	yes
Industrial Drafting Tech			yes	yes	yes	yes
Industrial Tech			yes	yes	yes	yes
Instrument & Control Tech		yes	yes	yes	yes	yes
Machine Tool Tech			yes	yes	yes	yes
Manufacturing Tech			yes	yes	yes	yes
Manufacturing Trades	yes	yes	yes	yes	yes	yes
Materials Management			yes	yes	yes	yes
Mechanical Design Tech			yes	yes	yes	yes
Mechanical Fabrication			yes	yes	yes	yes
Metal Machining Tech			yes	yes	yes	yes
Metallurg Sc Tech			yes	yes	yes	yes
Metrology & Calib Tech			yes	yes	yes	yes
Microprocessor tech	yes	yes				
Plant Maintenance Trades		yes	yes	yes	yes	yes
Plastic Tech			yes	yes	yes	yes
Quality Assurance Tech			yes	yes	yes	yes
Quality Control Tech			yes	yes	yes	yes
Robo & Flex Autom Tech			yes	yes	yes	yes
Solar Heating & Cooling			yes	yes	yes	yes
Tool Fixt & Die Des			yes	yes	yes	yes
Vehicle Body Tech			yes	yes	yes	yes
Vehicle Design			yes	yes	yes	yes
Welding Tech			yes	yes	yes	yes

Appendix B

Admission and Graduation Requirements

I. Admission Requirements:

The BSET degree program is designed to admit students with an associate's degree or equivalent college-level coursework in an appropriate engineering technology or related discipline. A minimum honor point average (HPA) of 2.5 is required for admission into the program. Students with an HPA of 2.0 to 2.50 may be admitted as Pre-ET students and may be transferred into the ET program upon successful completion of pre-calculus (MAT1800) and general physics (PHY2130) and an achievement of a 2.5 HPA. A mathematics placement examination is required of entering students unless they come with advanced credit in pre-calculus.

II. Graduation Requirements:

To earn a baccalaureate degree in engineering technology, a minimum of 128 semester credits are required. University policy requires that a maximum of 64 semester credits can be transferred from community colleges to Wayne State University, and a minimum of 30 semester credits must be taken from Wayne State University to earn a baccalaureate degree. Also, the Division policy mandates that at least 24 semester credits must be earned from Division of Engineering Technology courses.

In order to graduate, the University requires a minimum 2.0 g.p.a. in total residence credit and the Division requires a minimum 2.0 g.p.a. in total coursework in the area of specialization. All University Undergraduate General Education Requirements must also be satisfied.

Appendix C

Program Requirement

1. Electrical/Electronic Engineering Technology Program (EET)

BASIC SCIENCE AND MATHEMATICS:

- CSC 1050 -- (CL) Introduction to C and Unix: Cr. 2
- MAT 1800 -- Elementary Functions: Cr. 4
- MAT 3430 -- (E T 3430) Applied Differential and Integral Calculus: Cr. 4
- MAT 3450 -- (E T 3450) Applied Calculus and Differential Equations: Cr. 4
- PHY 2130 -- (PS) General Physics: Cr. 3
- PHY 2131 -- General Physics Lab: Cr. 1
- PHY 2140 -- General Physics: Cr. 3
- PHY 2141 -- General Physics Lab: Cr. 1
- CHM 1020 -- (PS) General Chemistry I: Cr. 4
- Life Sciences (LS) elective: Cr. 3

Total credits: 29

EET TECHNICAL CORE

- E T 3030 -- Statics: Cr. 3
- E T 3850 -- Reliability and Engineering Statistics: Cr. 3
- E T 3870 -- Engineering Economic Analysis: Cr. 3
- EET 3100 -- Advanced Digital Design: Cr. 3
- EET 3150 -- Network Analysis: Cr. 4
- EET 3180 -- Analog Electronics: Cr. 4
- EET3300 -- Applied Signal Processing: Cr. 3
- EET 3500 -- Electrical Machines & Power Systems: Cr. 3
- EET 3720 -- Micro and Programmable Controllers: Cr. 3
- EET 4200 -- Control Systems: Cr. 4
- EET Upper Division Technical Electives: Cr. 6
- E T 4999 -- (WI) Senior Project: Cr. 3

Total credits: 42

COMMUNITY COLLEGE TECHNICAL TRANSFER

- ET 2140 -- Computer Graphics: Cr. 3
- EET 2000 -- Electrical Principles: Cr. 3
- EET 2100 -- Principles of Digital Design: Cr. 3
- EET 2720 -- Microprocessor Fundamentals: Cr. 3
- Other: Cr. 18

Total credits: 30

COMMUNICATION REQUIREMENTS

Total credits: 9 (Appendix D)

OTHER GENERAL EDUCATION REQUIREMENTS

Total credits: 18 (Appendix D)

2. Electromechanical Engineering Technology Program (EMT)

BASIC SCIENCE AND MATHEMATICS:

- CSC 1050 -- (CL) Introduction to C and Unix: Cr. 2
- MAT 1800 -- Elementary Functions: Cr. 4
- MAT 3430 -- (E T 3430) Applied Differential and Integral Calculus: Cr. 4
- MAT 3450 -- (E T 3450) Applied Calculus and Differential Equations: Cr. 4
- PHY 2130 -- (PS) General Physics: Cr. 3
- PHY 2131 -- General Physics Lab: Cr. 1
- PHY 2140 -- General Physics: Cr. 3
- PHY 2141 -- General Physics Lab: Cr. 1
- CHM 1020 -- (PS) General Chemistry I: Cr. 4
- Life Sciences (LS) elective: Cr. 3

Total credits: 29

EMT TECHNICAL CORE

- E T 3030 -- Statics: Cr. 3
- E T 3850 -- Reliability and Engineering Statistics: Cr. 3
- E T 3870 -- Engineering Economic Analysis: Cr. 3
- EET 3010 -- Instrumentation: Cr. 3
- EET 3720 -- Micro and Programmable Controllers: Cr. 3
- MCT 3100 -- Mechanics of Materials: Cr. 3
- MIT 3510 -- Manufacturing Processes: Cr. 3
- EMT Upper Division Technical Electives: Cr. 18
- E T 4999 -- (WI) Senior Project: Cr. 3

Total credits: 42

COMMUNITY COLLEGE TECHNICAL TRANSFER

- ET 2140 -- Computer Graphics: Cr. 3
- EET 2000 -- Electrical Principles: Cr. 3
- EET 2100 -- Principles of Digital Design: Cr. 3
- EET 2720 -- Microprocessor Fundamentals: Cr. 3
- Other: Cr. 18

Total credits: 30

COMMUNICATION REQUIREMENTS

Total credits: 9 (Appendix D)

OTHER GENERAL EDUCATION REQUIREMENTS

Total credits: 18 (Appendix D)

3. Mechanical Engineering Technology Program (MCT)

BASIC SCIENCE AND MATHEMATICS:

- CSC 1050 -- (CL) Introduction to C and Unix: Cr. 2
- MAT 1800 -- Elementary Functions: Cr. 4
- MAT 3430 -- (E T 3430) Applied Differential and Integral Calculus: Cr. 4
- MAT 3450 -- (E T 3450) Applied Calculus and Differential Equations: Cr. 4
- PHY 2130 -- (PS) General Physics: Cr. 3
- PHY 2131 -- General Physics Lab: Cr. 1
- PHY 2140 -- General Physics: Cr. 3
- PHY 2141 -- General Physics Lab: Cr. 1
- CHM 1020 -- (PS) General Chemistry I: Cr. 4
- Life Sciences (LS) elective: Cr. 3

Total credits: 29

MCT TECHNICAL CORE

- E T 3030 -- Statics: Cr. 3
- E T 3050 -- Dynamics: Cr. 3
- E T 3850 -- Reliability and Engineering Statistics: Cr. 3
- E T 3870 -- Engineering Economic Analysis: Cr. 3
- EET 3010 -- Instrumentation: Cr. 3
- MIT 3510 -- Manufacturing Processes: Cr. 3
- MCT 3100 -- Mechanics of Materials: Cr. 3
- MCT 3150 -- Applied Thermodynamics: Cr. 4
- MCT 3180 -- Fluid Mechanics: Cr. 4
- MCT 3410 -- Kinematics and Dynamics of Machines: Cr. 3
- MCT 4400 -- Design of Machine Elements: Cr. 3
- MCT Upper Division Technical Electives: Cr. 4
- E T 4999 -- (WI) Senior Project: Cr. 3

Total credits: 42

COMMUNITY COLLEGE TECHNICAL TRANSFER

- ET 2140 -- Computer Graphics: Cr. 3
- ET 2200 -- Engineering Materials: Cr. 3
- EET 2000 -- Electrical Principles: Cr. 3
- Other: Cr. 21

Total credits: 30

COMMUNICATION REQUIREMENTS

Total credits: 9 (Appendix D)

OTHER GENERAL EDUCATION REQUIREMENTS

Total credits: 18 (Appendix D)

4. Manufacturing/Industrial Engineering Technology Program (MIT)

BASIC SCIENCE AND MATHEMATICS:

- CSC 1050 -- (CL) Introduction to C and Unix: Cr. 2
- MAT 1800 -- Elementary Functions: Cr. 4
- MAT 3430 -- (E T 3430) Applied Differential and Integral Calculus: Cr. 4
- MAT 3450 -- (E T 3450) Applied Calculus and Differential Equations: Cr. 4
- PHY 2130 -- (PS) General Physics: Cr. 3
- PHY 2131 -- General Physics Lab: Cr. 1
- PHY 2140 -- General Physics: Cr. 3
- PHY 2141 -- General Physics Lab: Cr. 1
- CHM 1020 -- (PS) General Chemistry I: Cr. 4
- Life Sciences (LS) elective: Cr. 3

Total credits: 29

MIT TECHNICAL CORE

- E T 3030 -- Statics: Cr. 3
- E T 3050 -- Dynamics: Cr. 3
- E T 3850 -- Reliability and Engineering Statistics: Cr. 3
- E T 3870 -- Engineering Economic Analysis: Cr. 3
- EET 3010 -- Instrumentation: Cr. 3
- MCT 3100 -- Mechanics of Materials: Cr. 3
- MCT 3410 -- Kinematics and Dynamics of Machines: Cr. 3
- MIT 3510 -- Manufacturing Processes: Cr. 3
- MIT 4700 -- Computer-Aided Design and Manufacturing: Cr. 3
- MIT Upper Division Technical Electives: Cr. 12
- E T 4999 -- (WI) Senior Project: Cr. 3

Total credits: 42

COMMUNITY COLLEGE TECHNICAL TRANSFER

- ET 2140 -- Computer Graphics: Cr. 3
- ET 2200 -- Engineering Materials: Cr. 3
- EET 2000 -- Electrical Principles: Cr. 3
- Other: Cr. 21

Total credits: 30

COMMUNICATION REQUIREMENTS

Total credits: 9 (Appendix D)

OTHER GENERAL EDUCATION REQUIREMENTS

Total credits: 18 (Appendix D)

5. Product Design Engineering Technology Program (PDT)

BASIC SCIENCE AND MATHEMATICS:

- CSC 1050 -- (CL) Introduction to C and Unix: Cr. 2
- MAT 1800 -- Elementary Functions: Cr. 4
- MAT 3430 -- (E T 3430) Applied Differential and Integral Calculus: Cr. 4
- MAT 3450 -- (E T 3450) Applied Calculus and Differential Equations: Cr. 4
- PHY 2130 -- (PS) General Physics: Cr. 3
- PHY 2131 -- General Physics Lab: Cr. 1
- PHY 2140 -- General Physics: Cr. 3
- PHY 2141 -- General Physics Lab: Cr. 1
- CHM 1020 -- (PS) General Chemistry I: Cr. 4
- Life Sciences (LS) elective: Cr. 3

Total credits: 29

PDT TECHNICAL CORE

- E T 3030 -- Statics: Cr. 3
- E T 3850 -- Reliability and Engineering Statistics: Cr. 3
- E T 3870 -- Engineering Economic Analysis: Cr. 3
- EET 3010 -- Instrumentation: Cr. 3
- MIT 3350 -- Applied Human Factors: Cr. 3
- MIT 3510 -- Manufacturing Processes: Cr. 3
- MIT 4700 -- Computer-Aided Design and Manufacturing: Cr. 3
- AID 3300 -- Introduction to Industrial Design: Cr. 3
- AID 6300 -- Transportation Design: Cr. 3
- PDT Upper Division Technical Electives: Cr. 12
- E T 4999 -- (WI) Senior Project: Cr. 3

Total credits: 42

COMMUNITY COLLEGE TECHNICAL TRANSFER

- ET 2140 -- Computer Graphics: Cr. 3
- ET 2200 -- Engineering Materials: Cr. 3
- EET 2000 -- Electrical Principles: Cr. 3
- Other: Cr. 21

Total credits: 30

COMMUNICATION REQUIREMENTS

Total credits: 9 (Appendix D)

OTHER GENERAL EDUCATION REQUIREMENTS

Total credits: 18 (Appendix D)

6. Computer Technology Program (CT)

BASIC SCIENCE AND MATHEMATICS:

- CSC 1050 -- (CL) Introduction to C and Unix: Cr. 2
- MAT 1800 -- Elementary Functions: Cr. 4
- MAT 3430 -- (E T 3430) Applied Differential and Integral Calculus: Cr. 4
- Physical Science (PS) elective (PHY 1020 recommended): Cr. 4
- Life Science (LS) elective (PSY course recommended): Cr. 3

Total credits: 17

BSCT TECHNICAL CORE

- E T 3850 -- Reliability and Engineering Statistics: Cr. 3
- E T 3870 -- Engineering Economic Analysis: Cr. 3
- EET 2100 -- Principles of Digital Design: Cr. 3
- EET 2720 -- Microprocessor Fundamentals: Cr. 3
- EET 3100 -- Advanced Digital Design: Cr. 3
- EET 3720 -- Micro and Programmable Controllers: Cr. 3
- EET 4100 -- Computer Hardware Design: Cr. 3
- EET 5720 -- Computer Networking Applications: Cr. 4
- CSC 3750 -- Introduction to Web Technology: Cr. 3
- CSC 4110 -- Introduction to Software Engineering: Cr. 3
- CSC 4420 -- Computer Operating Systems: Cr. 3
- CSC 4710 -- Information Systems Design: Cr. 3
- CSC 4996 -- (WI) Frontiers of Computing: Cr. 2
- CT Upper Division Elective: Cr. 4
- E T 4999 -- (WI) Senior Project: Cr. 3

Total credits: 46

COMMUNITY COLLEGE TECHNICAL TRANSFER

- CSC 1100 -- (CL) Problem Solving and Programming: Cr. 4
- CSC 2110 -- Introduction to Data Structures and Abstractions: Cr. 4
- CSC 2200 -- Data Structures and Algorithm Analysis: Cr. 4
- Other: Cr. 26

Total credits: 38

COMMUNICATION REQUIREMENTS

Total credits: 9 (Appendix D)

OTHER GENERAL EDUCATION REQUIREMENTS

Total credits: 18 (Appendix D)

Appendix D

Communication and Other General Education Requirements

COMMUNICATION REQUIREMENTS

- ENG 1020 -- (BC) Introductory College Writing: Cr. 3
- ENG 3050 -- (IC) Technical Communication I: Report Writing: Cr. 3
- ENG 3060 -- (OC) Technical Communication II: Writing & Speaking: Cr. 3
- English Proficiency Examination: Cr. 0

Total credits: 9

OTHER GENERAL EDUCATION REQUIREMENTS

- Historical Studies (HS): Cr. 3
- American Society and Institutions (AI): Cr. 3
- Social Sciences (SS): Cr. 3
- Foreign Culture (FC): Cr. 3
- Visual and Performing Arts (VP): Cr. 3
- Philosophy and Letters (PL): Cr. 3
- Critical Thinking (CT) Competency Examination: Cr. 0

Total credits: 18

Appendix E

St Clair County Community College – Wayne State University Course Transferring Sheets