

EASTERN MICHIGAN UNIVERSITY
ARTICULATION GUIDE

January 2004

Owens/EMU Applied Technology

Owens Community College – Associate Degree in an Approved Technical Program
Eastern Michigan University – Bachelor of Science in Applied Technology

Purpose:

Bring a copy of this articulation agreement to all advising sessions.

This 3 + 1 agreement was developed to provide a smooth curriculum transition for students who want to earn an associate degree in an approved technical program from OCC and transfer to EMU to earn a Bachelor of Science in Applied Technology. The agreement is designed to minimize loss of credits and duplication of coursework in transferring.

Requirements:

1. Complete the approved technical program at Owens Community College and complete the coordinated program of study for the Bachelor of Science in Applied Technology as indicated in the attached articulation guide.
2. Satisfy the requirements of the MACRAO agreement as indicated in the attached articulation guide. Students whose transcripts are endorsed as “MACRAO Satisfied” by the community college will only be required to meet EMU’s additional four general education requirements:
 - a) A course in advanced written composition, advanced speech, or a foreign language [SPE 102 or SPE 220 at OCC]
 - b) A course in mathematical reasoning [MTH 108 or 211 at OCC or MATH 170 at EMU]
 - c) A cross-cultural course [ENG 215 or 225 at OCC]
 - d) A course in computer literacy [CIS 237 at OCC or CADM 105 at EMU]All four requirements are noted in the attached guide with a “1”. Substitutions for required courses should be made with the guidance of a program advisor or a counselor. Students who do not satisfy MACRAO may use this agreement, but will be required to complete all of EMU’s general education requirements as listed in the Undergraduate Catalog.
3. When applying to EMU, an official transcript, endorsed as “MACRAO Satisfied”, must be sent to EMU’s Office of Records and Registration. Students must request a MACRAO endorsement on their transcript in the Owens Community College Registrar’s Office.
4. Only courses with a grade of “C” or better (2.0 on a 4.0 scale) will be accepted for transfer to EMU. A Course completed with a grade of less than 2.0, which is counted toward graduation at the community college, may be used to satisfy MACRAO requirements. However, the course will not transfer and will have to be repeated if it is a requirement of the Applied Technology program at EMU.
5. Under this agreement, students may transfer additional courses beyond the total for the associate degree. EMU will waive the 60-hour rule and require only that a minimum of 30 credit hours must be taken at EMU, 21 hours of which must be in the major with 15 hours at the 300/400 level. A minimum of 124 credit hours, completed in-residence or accepted in transfer, is required for graduation.
6. Students must meet all admission requirements at the time of application for admission to EMU, including submitting transcripts from all previously attended colleges.
7. Students interested in transferring to EMU should contact the Applied Technology program advisor early, before completing an admission application to EMU. **Students should bring a copy of this articulation agreement to all advising sessions.**

Effective Dates: November 1, 2003 until November 1, 2006. If this agreement is not renewed, students who designated this program agreement before its termination will have three years beyond the initial three to be admitted to EMU under the terms of the agreement. Students should check with an advisor each semester to find out if there are changes to the curriculum at either school.

Contacts:

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Owens Community College Courses:

***MACRAO Requirements (32-34 Credits)**

- 1. English Writing Requirement (6 credits)**
 - ENG 111 Composition I 3
 - ENG 112 Composition II 3
- 2. Math/science Requirements (8-9 Credits)**
 - ¹ MTH 108 Modern College Mathematics 4
 - Choose one course from the following: 4-5
 - PHY 201 General Physics II (5)
 - CHM 111 Basic Chemistry (4)
- 3. Social science Requirements (9 Credits)**
 - PSY 111 General Psychology 3
 - GOV 111 American Government 3
 - ECO 202 Macroeconomics 3
- 4. Humanities Requirements (9-10 Credits)**
 - ¹ Choose one course from the following: 3
 - SPE 102 Interpersonal Communication (3)
 - SPE 220 Intercultural Communication (3)
 - ¹ Choose one course from the following: 3
 - ENG 215 American Multicultural Lit (3)
 - ENG 225 Women in Literature (3)
 - Choose one course from the following: 3-4
 - ENG 200, 201, 210, 200, 251, 252, 255, 266, 267;
 - FRE/GER/SPA 211, 212; PHL 102, 102, 225;
 - HUM 100, 200, 275; ART 101, 106; ART 101, 106;
 - THE 100, 160, 261

²Technical Concentration: (34 Credits)

A maximum of 34 credits in technical specialty courses from an approved OWENS program (see list of approved programs)34

Credits at OCC 66-68

Additional Courses That May be taken at Owens or EMU:

These courses are not required for an Associate Degree, but may be transferred to EMU for the Applied Technology program.

- ECO 201 Microeconomics 3
- PHY 202 General Physics II 5
- ¹ MTH 211 Applied Statistics 3
- ¹ CIS 237 Adv Microcomputer Topics 3
- Take a second science course (choose the course not already completed above for MACRAO): 4-5
 - PHY 201 General Physics II (5)
 - CHM 111 Basic Chemistry (4)

Electives: (6-9 Credits)

Electives to bring the total at OCC up to 93 or at EMU to 124 ... 6-9

Maximum Credits at OCC93

Transfers to EMU as:

(32-34 Credits)

- ENGL 120 University Elective (MACRAO requirement) 3
- ENGL 121 English Composition II 3
- MATH 110 Mathematical Reasoning (3) +1 4
- One Course 4-5
- PHY 221 Mechanics, Sound & Heat (4) +1
- CHM 117/118 Fundamentals of Chemistry with Lab (4)
- PSY 101 General Psychology 3
- PLSC 112 American Government 3
- ECON 201 Principles of Economics I 3
- One Course 3
- CTAC 227 Interpersonal Communication (3)
- CTAC 374 Intercultural Communication (3)
- One Course 3
- LITR BASX Basic Studies Cross Cultural (3)
- LITR BASX Basic Studies Cross Cultural (3)
- One Course 3-4
- Courses may transfer as equivalent courses, Basic Studies transfer credit, or general transfer credit

(34 Credits)

Technical Concentration 34

Credits that transfer to EMU66-68

(18-19 Credits)

- ECON 202 Principles of Economics II 3
- PHY 222 Electricity & Light (4) +1 5
- MATH 170 Elementary Statistics 3
- COSC BAS (substitute for CADM 105) 3
- One course: 4-5
- PHY 221 Mechanics, Sound & Heat (4)+1
- CHEM 117/118 Fundamentals of Chemistry with Lab (4)

(6-9 Credits)

University Electives 6-9

Maximum Credits that transfer to EMU93

* Courses used to satisfy MACRAO must be included on the community college transcript to satisfy MACRAO.

¹ Satisfies one of EMU's four additional general education requirements for MACRAO, see Article II, #2 for more information.

² If an OCC program has less than 34 technical credits, additional college-level courses from the approved discipline may be taken at either institution to bring the total to 34.

NOTE: If an OCC course has more credits than the EMU equivalent course, the additional credits will be included in the program total as general transfer credit.

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Completion of Applied Technology program at EMU

Required Courses (10 Credits)

¹ ENG 324 Principles of Technical Communication.....	3
MATH 105 College Algebra	3
MATH 107 Plane Trigonometry.....	2
Physical Education Graduation Requirement.....	2

Major Requirements (21 Credits)

** Restricted Electives (100-400 level)	6
** Restricted Electives (300-400 level)	15

Minimum Credits at EMU: 31

Minimum Credits to Graduate: 124

¹Satisfies one of EMU's four additional general education requirements for MACRAO, see page 1, #2 for more information.
****All restricted electives must be approved by an Applied Technology Program Advisor.**

Approved Owens Community College Programs/Disciplines

- Architectural Engineering Technology
 - Architectural CAD Operator Certificate
 - Construction Inspector Certificate
- Automotive Technology
 - Automotive Specialty Certificate
 - Automotive Service Certificate
- CAD Technology
- Electrical/Electronics Technology
- Environmental Technology
- Industrial and Automation Electronics
 - Industrial Control Certificate
- Industrial Equipment Technician
- Manufacturing Technology
 - CAD/CAM Certificate
 - Tool and Die/Mold Certificate
 - Machinist Certificate
 - CNC Operator Certificate
 - Manufacturing Maintenance Certificate
- Manufacturing and Industrial Operations Technologies
- Mechanical Engineering Technology
 - Fluid Power Certificate
 - Mechanical CAD Operator Certificate
- Quality Assurance
- Surveying Technology
- Welding Major
- General Studies Degree with 34 technical credits in any of the approved program disciplines above