

**EASTERN MICHIGAN UNIVERSITY  
ARTICULATION GUIDE**

September 2007

**Owens Community College – Approved Technical Programs/Disciplines  
Eastern Michigan University – Bachelor of Science in Applied Technology**

**Owens Community College**

**Eastern Michigan University**

<b>General Education Requirements (41-42 credits)</b>	<b>(41-42 credits)</b>
<b>I. Effective Communication (9 credits)</b>	<b>(9 credits)</b>
ENG 111 Composition I .....3	ENGL 120 English Comp I (university elective) .....3
ENG 112 Composition II .....3	ENGL 121 English Composition II .....3
SPE 101 Public Speaking .....3	CTAS 124 Fundamentals of Speech .....3
<b>II. Quantitative Reasoning (3-4 credits)</b>	<b>(3-4 credits)</b>
<sup>1</sup> Complete one course: .....4	One course: Quantitative Reasoning Requirement .....4
MTH 108 Modern College Mathematics (4)	MATH 110 Mathematical Reasoning (3)+1
MTH 125 Modern Business Math (3) (complete at Owens)	MATH 118 Linear Models and Probability (3)
MTH 131 Calculus I (5) (complete at Owens)	MATH 120 Calculus I (4)+1
MTH 211 Applied Statistics (4) (complete at Owens)	MATH 170 Elementary Statistics (3)+1
<b>III. Perspectives on a Diverse World (3 credits)</b>	<b>(3 credits)</b>
Complete one course: .....3	One course: .....3
AAS 101, AAS 120; ENG 215, ENG 225; GPH 106; HIS 152, HIS 270; HUM 105, 275; SOC 220, SOC 250; SPA 100	Courses may transfer as equivalent courses or general education GEGA or GEUS credit
<b>IV. Knowledge of the Disciplines (26 credits)</b>	<b>(26 credits)</b>
Complete two courses (with different prefixes) from each area:	
<b>1. Arts: .....6</b>	Two courses: .....6
ART 101, 105, 107, 108, 201, 202, 203, 204, 210; DAN 121, 122; ENG 230; THE 100, 131, 150, 201, 261	Courses may transfer as equivalent courses or general education knowledge of the arts credit (GEKA)
<b>2. Humanities: .....6</b>	Two courses: .....6
ENG 200, 201, 210, 220, 260, 280; HIS 101, 102; HUM 100, 105, 200, 275; PHL 101, 102, 221, 225; ARB 101, SPA 100 ARB/CHN/FRE/GER.JPN/SPA 111, 112, 211, 212	Courses may transfer as equivalent courses or general education knowledge of the humanities credit (GEKH)
<b>3. Natural Science .....8</b>	Two courses: .....8
*CHM 111 Basic Chemistry (4)	CHM 117/118 Fund of Chemistry with Lab (4)
* Complete one course:	Choose one:
PHY 111 Technical Physics I - Mechanics (4)	PHY GEKN (subs for PHY 221) (4)
PHY 115 Physical Science for Tech (4)	PHY GEKN (subs for PHY 221 & PHY 222) (4)
<b>4. Social Science .....6</b>	Two courses: .....6
ECO 100, 111, 201, 202; GPH 108; GOV 111, 205, 207; HIS 201, 202; PSY 101; SOC 101, 250; SPE 102, 200	Courses may transfer as equivalent courses or general education knowledge of the social sciences (GEKS)
<b>Technical Concentration: (34 credits)</b>	<b>(34 credits)</b>
Thirty-four (34) credits in technical courses from an approved Owens program or discipline will transfer as a block for a technical concentration. If the program has less than 34 technical credits, related courses may be taken at either institution to make up the difference .....34	Technical Concentration .....34
<b>Owens Additional Requirement (0-4 credits)</b>	<b>(0-4 credits)</b>
<sup>2</sup> PHY 112 Technical Physics II – Heat, Light, Electricity.... 0-4 (only required if PHY 111 is taken)	PHY GEKN (4) (Sub for PHY 222) ..... 0-4
<b>Courses that may be taken at Owens or EMU (14-19 credits)</b>	<b>(14-19 credits)</b>
Open Electives (not to exceed 94 credits at Owens) ..... 14-19	University Electives ..... 14-19
<b>Credits at Owens: ..... 94</b>	<b>Credits that transfer to EMU ..... 94</b>

\* Required for EMU's Applied Technology major.

<sup>1</sup> MTH 125, 131, or 211 should be completed at Owens CC to satisfy EMU's Quantitative Reasoning Requirement. If completed at EMU, MATH 110 may be required. The requirement for MATH 105 and 107 will be waived if Physics is completed at Owens.

<sup>2</sup> Required for students who completed PHY 111 but not for students who completed PHY 115.

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**Completion of EMU's Applied Technology Program**

**Major Requirements (24 credits)**

- SET 350 Applied technical Writing (WI) ..... 3  
 \*\* Restricted Electives ..... 6  
 Select six hours at the 100 to 400-level in consultation with an Applied Technology program adviser.  
 \*\* Restricted Electives ..... 15  
 Select fifteen hours of restricted electives at the 300- 400-level in consultation with an Applied Technology program adviser.

**Additional Requirement (0-3 credits)**

One LBC course or noncredit experience must be completed. MFG 387 Coop in Manufacturing Technology satisfies the LBC requirement.

**University Electives (3-6 credits)**

To bring the program total to 124 credits ..... 3-6

**Minimum Credits at EMU: ..... 30**

**Minimum Credits to Graduate ..... 124**

**Thirty Credit Hours of EMU Coursework On-line**

Beginning in fall 2007, EMU will offer 30 credit hours of Applied Technology Program coursework on-line. Such coursework will include the major requirements (Restricted Electives) and an additional nine credit hours of appropriate university electives.

University electives may include courses from the School of Engineering Technology or any other department at EMU. The list below is an example of courses intended to meet this requirement. This list is subject to revision at any time.

- SET 350 Applied Technical Writing ..... 3  
 CADM 360 CIM Operations ..... 3  
 FMGT 202 Intro to Facility Management ..... 3  
 FMGT 424 Industrial Plant Facilities & Planning ..... 3  
 MFG 103 Introduction to Automation ..... 3  
 MFG 140 Science, Technology & People ..... 3  
 MFG 203 Industrial Operations ..... 3  
 MFG 387 Cooperative Education (arranged with adviser) ..... 3  
 MFG 421 Manufacturing Engineering Analysis ..... 3  
 MFG 470 Integrated Product and Process Design ..... 3  
 MFG 490 Manufacturing Enterprise Capstone ..... 3  
 QUAL 320 Industrial Quality Control ..... 3

**Owens Community College  
Approved Technical Programs/Disciplines**

- Architectural Engineering Technology
  - CAD Technology
  - Mechanical Engineering Technology
  - Surveying Technology
  - Electrical/Electronics Engineering Technologies
  - Electrical/Electronics Technology
    - Biomedical Electronics
    - Computer Science
    - Industrial & Automation Electronics
  - Wide Area Networking Technology
  - Advanced Integrated Manufacturing Systems
    - Electrical Maintenance
    - Facility Maintenance
    - Fluid Power Maintenance
    - Mechanical Maintenance
    - Programmable Logic Control
  - Manufacturing Technology
    - CAM
    - Quality Assurance
    - Six Sigma Green Belt
    - Six Sigma Black Belt
    - Welding
  - Automotive Technology
    - Automotive Service Management
    - Caterpillar Dealer Service
    - General Motors Automotive Service
    - Diesel
    - John Deere Agricultural Technician
- Other programs may be used with approval of the Applied Technology Program Coordinator

*\*\* All restricted electives must be approved by an Applied Technology Program Adviser.*

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**Additional Information:**

1. In completing the coordinated program of study for this articulation agreement, course substitutions should be made with the guidance of the advisors (indicated below) at both institutions to assure that all requirements are satisfied. Courses indicated with an \* are required for EMU's Applied Technology Program.
2. Although this agreement is structured to meet EMU's general education requirements, students whose transcripts are endorsed as Ohio Transfer Module completed will only be required to meet three EMU general education requirements: an approved quantitative reasoning course, an approved course in global awareness or US diversity, and one learning beyond the classroom experience or course. All general education requirements may be completed at the most appropriate time for the student whether before or after admission to EMU.
3. Only courses with a grade of "C" or better (2.0 on a 4.0 scale) will be accepted for transfer to EMU.
4. Under this agreement, EMU will waive the 60-hour rule and require that a minimum of 30 credit hours must be completed at EMU, 15 hours of which must be in program requirements at the 300-level or above. Of the last 30 hours completed before graduating, a minimum of 10 credit hours must be in courses offered by EMU. A minimum of 124 credit hours, completed in-residence or accepted in transfer, is required for graduation. General Education requirements may be completed at the most appropriate time for the student whether before or after admission to EMU.
5. Students must meet all admission requirements at the time of application for admission to EMU, including submitting transcripts from all previously attended colleges. Owens students will receive equal consideration with other students for course registration and financial aid.
6. Students are encouraged to contact the Applied Technology Program Coordinator early, before applying to EMU. To facilitate the evaluation of transcripts, students should enclose a copy of this articulation guide with their EMU admission application and bring a copy to all advising sessions. Copies of the articulation guide are available on EMU's webpage at [www.emich.edu/ccr/artguide.htm](http://www.emich.edu/ccr/artguide.htm).

**Effective Dates: September 1, 2007 until September 1, 2010.** This agreement replaces an agreement made in November 2003 and all subsequent updates. Students who began this program prior to fall 2007 have the option of following the agreement in place when they started or using this agreement. If this agreement is not renewed at the end of the effective period, students who already started the program will be given three additional years to be admitted to EMU under the terms of this agreement.

**Contacts:**

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College of Technology  
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