

# UNIVERSITY OF CENTRAL MISSOURI

## Moberly Area Community College Mechatronics A.A.S.

to

### UCM B.S. in Technology Management: General Technology (2 + 2)

#### Years 1 and 2 at Moberly Area Community College

(UCM Equivalencies are in parenthesis)

#### COMMUNICATION – 6 Credit Hours

- \*\*LAL 101 Composition I (ENGL 1020) *or* 3  
 \*\*IND 120 Technical Report Writing (CTE 3060)  
 \*\*SPK 101 Public Speaking (COMM 1000) 3

#### HUMANITIES – 3 Credit Hours

- Choose one course from either Group 3  
 Group 1 - DRM 120 (THEA 2400), MUS 102 (MUS 1210)  
 MUS 105 (GNED 1910)  
 Group 2 - FLN 101 (SPAN 1601), FLN 102 (SPAN 1602),  
 FLN 111 (FREN 1201), PHI 150 (PHIL 1000)

#### SOCIAL AND BEHAVIORAL SCIENCES – 3 Credit Hours

- \*\*HST 105 American History to 1865 (HIST 1350) *or* 3  
 \*\*HST 106 American History from 1865 (HIST 1351) *or*  
 \*\*PSC 105 Functions & Policies of Amer. Gov. (POLS 1510)

#### PHYSICAL AND BIOLOGICAL SCIENCES – 5 Credit Hours

- \*\*PHY 125 Foundations of Physics (PHYS 1104) 5

#### MATHEMATICS – 3 Credit Hours

- \*\*MTH 140 Precalculus Algebra (MATH 1111) 3

#### LIFE SKILLS – 1 Credit Hours

- SKL 101 College Orientation 1

#### CORE COURSE REQUIREMENTS – 43 Credit Hours

- AMD 110 Industrial Print Reading: CPT2 3  
 EET 100 DC/AC Electronics 3  
 EET 101 Industrial Electricity 3  
 EET 110 Digital Electronics & Control 3  
 EET 111 Electric Motor Controls 3  
 EET 213 Process Control and Instrumentation 3  
 EET 214 Programmable Logic Controls 3  
 EET 216 Advanced PLCs 3  
 EET 220 Robotics & Integrated Manufacturing 3  
 IND 100 Ind. Safety & Mfg. Processes (sub for INDM 4010) 3  
 IND 101 Fundamentals of Industrial Maintenance: CPT4 3  
 IND 105 Fluid Power Systems 3  
 IND 200 Mechanical Systems 3  
 SKL 250 Employment Seminar *or* 1-2  
 IND 295 Industrial Technology Internship

\*\*Course fulfills a major requirement at UCM and if not taken as part of AAS must be taken at UCM

**Minimum Hours Required for A.A.S.: 60**

#### YEARS 3 AND 4 AT UCM

(MACC equivalencies are in parenthesis)

#### MAJOR REQUIREMENTS – 18 Credit Hours

- ENGT 4580 Quality Systems Engineering 3  
 INDM 4015 Legal Aspects of Industry 3  
 INDM 4210 Industrial Management 3  
 ENGT 3510 Project Management for Engineering Technology 3  
 INDM 4260 Organizational Dynamics 3  
 TECH 4950 Seminar in Technology Management 3

#### OPTION 7 GENERAL TECHNOLOGY – 14 Credit Hours

The student, working with a faculty advisor, will select 16 semester hours of upper-level (3000/4000) course work from program areas in the School of Technology.

#### GENERAL EDUCATION REQUIREMENTS – 21 Credit Hours

##### Foundation Skills Area

- Writing I and II 6  
 CTE 1210 Managing Info. (3)  
 If LAL 101 was completed at MACC, then take  
 CTE 3060 Technical Writing  
 If IND 120 was completed at MACC, then take  
 ENGL 1020 Composition I

##### Knowledge Area I

- Literature 3  
 ENGL 2200 (LAL 120), ENGL 2205 (LAL 121), ENGL 2210 (LAL 150)  
 ENGL 2215 (LAL 151), ENGL 2220 (LAL 210), ENGL 2220 (LAL 211)  
 Fine Arts 3  
 (Disregard if a course has been taken at MACC from the Humanities Group 1 to fulfill the Humanities requirement)  
 ART 1800, ART 1835, COMM 3000, DANC 2100, THEA 2400  
 (DRM 120), MUS 1210 (MUS 102), MUS 1220, MUS 1281  
 Additional course from Knowledge Area I 3  
 (Disregard if a course has been taken at MACC from the Humanities Group 2 to fulfill the Humanities requirement)  
 Choose one additional course from the Literature or Fine Arts category or from the following:  
 FREN 1201 (FLN 111), FREN 1202, GER 1301, GER 1302,  
 SPAN 1601 (FLN 101), SPAN 1602 (FLN 102), SPAN 2601,  
 SPAN 2602, PHIL 1400, COMM 1200 or PHIL 1000 (PHI 105)

##### Knowledge Area II

- Additional course from Knowledge Area II 3  
 Choose an additional math or science course from *The General Education Program* at catalog.ucmo.edu.

##### Knowledge Area III

- Social/Behavioral Sciences 3  
 ECON 1010 Principles of Macroeconomics (ECN 101)  
 Additional course from Knowledge Area III 3  
 Choose an additional History or Social/Behavioral Sciences course from *The General Education Program* at catalog.ucmo.edu.

##### Engagement

- CTE 3116 Creative Thinking for a Better World 3

**Minimum Hours Required for B.S.: 120**

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#### VALIDITY OF THIS TRANSFER GUIDE

This guide is based on the UCM 2017 Undergraduate Catalog and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree completion and course sequencing will depend on any credits transferred to UCM and on planned placement in math, reading, and writing. See the current UCM Undergraduate Catalog and MACC Course Catalog for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

#### GENERAL EDUCATION REQUIREMENTS

Students who hold an Associate in Arts Degree from MACC or have met the Missouri 42-hour General Education Core requirements are considered to have fulfilled all UCM General Education requirements, except specific general education classes required by this major. Lists of General Education Requirements can be found in the UCM Catalog.

**For those students with an associate degree other than the Associate of Arts or who have not completed the A.A. degree, transfer courses are evaluated on a course-by-course basis.**

#### REQUIREMENTS FOR THIS MAJOR

- Minimum of 120 hours
- Minimum of 30 hours of upper-level credit (3000/4000 level). Courses taken at a two-year college MAY be articulated for an upper-level course but WILL NOT count towards upper-level hour requirements.
- Minimum of 12 hours of upper-level credit (3000/4000 level) in major
- No minor is required for this degree.
- No modern language is required for this degree.

#### RESIDENCY REQUIREMENTS FOR A DEGREE AT UCM

A candidate for any bachelor's degree must have earned the following minimum hours at UCM:

- 30 hours overall
- 20 upper-level hours (3000/4000 level courses)
- 15 hours in the major
- 9 upper-level hours in the major
- 9 hours in minor (if applicable)
- 1 upper-level hour in minor (if applicable)
- The last 12 semester hours required for the degree

#### GPA REQUIRED FOR GRADUATION

Students must achieve a minimum GPA of 2.00 in all GPAs to qualify for graduation. This includes cumulative GPA, UCM GPA, major GPA, and minor GPA (if applicable). Some degrees have additional GPA requirements.

#### DUAL ADMISSION

Students are encouraged to apply for dual admission during their first semester at MACC to coordinate associate degree completion with degree requirements at UCM. To learn more visit [www.ucmo.edu/undergrad/dualadmissions.cfm](http://www.ucmo.edu/undergrad/dualadmissions.cfm).

#### GENERAL EDUCATION ASSESSMENT

All UCM students are required to pass a General Education Assessment (GEA). Students transferring in more than 45 hours are required to take the test during their first semester at UCM. Testing Services can be contacted by phone at (660) 543-4919 or by e-mail at [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu).

To learn more visit

[www.ucmo.edu/assessment/documents/gened\\_policy.pdf](http://www.ucmo.edu/assessment/documents/gened_policy.pdf)

#### CATALOGS

Moberly Area Community College catalog:

[https://www.macc.edu/images/aboutmacc/catalogs1/2016-2018\\_MACC\\_CATALOG\\_May%2026\\_17CC.pdf](https://www.macc.edu/images/aboutmacc/catalogs1/2016-2018_MACC_CATALOG_May%2026_17CC.pdf)

UCM catalog: <https://www.ucmo.edu/current-students/office-of-the-registrar-and-student-records/catalogs/index.php>

#### TRANSFER WORK

Arrange for all transfer work to be posted at UCM at the time of application. An official transcript must be received at UCM directly from each school attended. Individual transfer equivalencies can be found online at [www.ucmo.edu/corequiv](http://www.ucmo.edu/corequiv). Transcripts can be sent to: University of Central Missouri, Office of Admissions, Ward Edwards 1400, Warrensburg, MO 64093

#### UCM TRANSFER ADVISORS

UCM advisors for all programs in the University are associated with Success Advising, located in the Success Advising Center in Union 128. Contact your advisor by calling (660)543-4721 or by email [success@ucmo.edu](mailto:success@ucmo.edu)

Advisor Portal: <https://www.ucmo.edu/current-students/student-services/success-advising/index.php>

#### UCM DEPARTMENT CONTACT

The School of Technology is located in the Grinstead Building, Room 009. To learn more visit [www.ucmo.edu/technology](http://www.ucmo.edu/technology).

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