

# UNIVERSITY OF CENTRAL MISSOURI

St. Charles Community College Supply Chain Logistics and Manufacturing Technologies A.A.S.  
to

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

### Years 1 and 2 at St. Charles Community College

(UCM Equivalencies are in parenthesis)

#### COMMUNICATION – 9 Credit Hours

ENG 101 English Composition I (ENGL 1020)	3
ENG 115 Technical Writing (CTE 3060)	3
SPE 101 Oral Communications (COMM 1050)	3

#### MATHEMATICS – 3 Credit Hours

**MAT 158 College Algebra (MATH 1111)	3
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#### SOCIAL SCIENCE – 3 Credit Hours

HIS 101 (HIST 1350), HIS 102 (HIST 1351), or HIS 115 (HIST 1351)	3
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#### NATURAL SCIENCES – 4 Credit Hours

**PHY 111 Introduction to Physical Science <i>and</i>	4
PHY 113 Introduction to Physical Science Lab (PHYS 1104)	

#### HUMANITIES – 3 Credit Hours

ART 101 (ART 1800), LIT 210 (ENGL 2200), LIT 220 (ENGL 2205), LIT 250 (ENGL 2210), LIT 260 (ENGL 2215), LIT 271 (ENGL 2220), LIT 272 (ENGL 2220), LIT 273 (ENGL 2220), MUS 111 (MUS 1210), MUS 112 (MUS 1281), PHL 101 (PHIL 1000), THE 122 (THEA 2400), FRN, 101 (FREN 1201), FRN 102 (FREN 1202), GRM 101 (GER 1301), GRM 102 (GER 1302), SPN 101 (SPAN 1601), SPN 102 (SPAN 1602), SPN 201 (SPAN 2061), or SPN 202 (SPAN 2602)	3
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#### ELECTIVES – 4 Credit Hours

**CPT 103 Microcomputer Applications (CIS 1600) (sub for CTE 1210)	3
COL 101 Success in College and Beyond	1

#### CORE COURSE REQUIREMENTS – 33 Credit Hours

MFG 101 Principles of Safety	3
MFG 105 Employment Strategies	3
MFG 111 Principles of Quality Practices	3
MFG 201 Principles of Manufacturing Process & Production	3
MFG 205 Manufacturing Process Controls	3
MFG 215 Problem Solving	3
MFG 220 Principles of Maintenance Awareness	3
MFG 225 Supervisory Skills	3
LGM 101 Supply Chain & Logistics I	3
LGM 210 Supply Chain & Logistics II	3
MFG 230 Manufacturing Measurement <i>or</i>	3
BUS 204 Total Quality Operations Management <i>or</i>	
BUS 208 Entrepreneurship/Small Business Management <i>or</i>	
BUS 210 Organizational Behavior	

#### CORE COURSE ELECTIVES – 5-6 Credit Hours

MFG 141 Principles of Green Production	3
CDM 103 Introduction to CAD	2
GEO 120 Introduction to GIS	3

\*\*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.: 64**

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

### YEARS 3 AND 4 AT UCM

(SCCC equivalencies are in parenthesis)

#### MAJOR REQUIREMENTS – 21 Credit Hours

ENGT 4580 Quality Systems Engineering	3
INDM 4010 Current Issues in Industry	3
INDM 4015 Legal Aspects of Industry	3
INDM 4210 Industrial Management	3
INDM 4250 Project Management	3
INDM 4260 Organizational Dynamics	3
TECH 4950 Seminar in Technology Management	3

#### OPTION 4 MANUFACTURING ENG. TECH. – 16 Credit Hours

ENGT 3520 Engineering Economy	3
ENGT 3530 Inspection and Quality Control	3
ENGT 3562 Computer Numerical Control	3
ENGT 4520 Robotics and Automation	3
ENGT 4590 Computer Integrated Manufacturing	3
Departmentally Approved Elective	1

#### GENERAL EDUCATION REQUIREMENTS – 18 Credit Hours

##### Knowledge Area I

Literature	3
<i>(Disregard if a Literature course has been taken at SCCC to fulfill the Humanities requirement)</i>	
ENGL 2200 (LIT 210), ENGL 2205 (LIT 220), ENGL 2210 (LIT 250), ENGL 2215 (LIT 260), or ENGL 2220 (LIT 271, 272 or 273)	

Fine Arts	3
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*(Disregard if a Fine Arts course has been taken at SCCC to fulfill the Humanities requirement)*

ART 1800 (ART 101), MUS 1210 (MUS 111), MUS 1281 (MUS 112) or THEA 2400 (THE 122)

Additional course from Knowledge Area I	3
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Choose one additional course from the Literature or Fine Arts category or from the following:

*(Disregard if a Foreign Language course has been taken at SCCC to fulfill the Humanities requirement)*

FREN 1201 (FRN 101), FREN 1202 (FRN 102), GER 1301 (GRM 101), GER 1302 (GRM 102), SPAN 1601 (SPN 101), SPAN 1602 (SPN 102), SPAN 2601 (SPN 201), SPAN 2602 (SPN 202), or PHIL 1000 (PHL 101)

##### Knowledge Area II

Additional course from Knowledge Area II	3
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Choose one additional course from the following:

ACST 1300 (MAT 175), MATH 1131 (MAT 210), MATH 1150 (MAT 171), MATH 1151 (MAT 180), BIOL 1003 (BIO 105), BIOL 1004 (BIO 105 & 106), BIOL 2010 (BIO 110 & 113), CHEM 1103 (CHM 101), CHEM 1104 (CHM 101 & 103), or CHEM 1131 (CHM 115)

##### Knowledge Area III

Social/Behavioral Sciences	3
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ECON 1010 Principles of Macroeconomics (ECO 110)

Additional course from Knowledge Area III	3
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Choose one additional course from the following:

HIST 1350 (HIS 101), HIST 1351 (HIS 102 or 115), or POLS 1510 (POL 101)

##### Engagement

CTE 3116 Creative Thinking for a Better World	3
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**FREE ELECTIVES – 1 Credit Hours**

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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 SCCC 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 SCCC 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 SCCC 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

St. Charles Community College catalog: <https://www.stchas.edu/academics/college-catalog/>  
UCM catalog: [www.catalogucmo.edu](http://www.catalogucmo.edu)

### 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 programs in the College of Health, Science, and Technology (CHST) are located in the CHST Advising Center located in Administration 105. Contact your advisor by calling (660)543-4554 or by email [chstadvising@ucmo.edu](mailto:chstadvising@ucmo.edu).

### 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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