

**Advanced Manufacturing Technology – Quality Engineering**  
**Associate in Applied Science**  
**M.A.P.**

Semester	Suggested Courses		Semester(s) Offered*	Credit Hours
<b>Semester 1</b> 15 credit hours	WKO 120	Ready to Work I	Fall	2
	WKO 121	Ready to Work II	Fall	2
	AUT 102	Lean Manufacturing and Industrial Safety	Fall	3
	AUT 144	Manufacturing Systems, Methods and Processes	Fall	3
	MTH 100 <i>or</i> MTH 116	Intermediate College Algebra <i>or</i> Mathematical Applications	Fall, Spring, Summer	3
	ORI 101	Orientation to College	Fall, Spring, Summer	2
<b>Semester 2</b> 14 credit hours	LGT 108	Introduction to Logistics	Spring	3
	LGT 112	Warehouse Operations Applications	Spring	3
	AUT 155	Metrology	Spring	3
	AUT 200	Total Productive Maintenance	Spring	2
	ENG 101	English Composition I	Fall, Spring, Summer	3
<b>Semester 3</b> 15 credit hours <b>MMT Certificate Achieved</b>	AUT 104	Blueprint Reading for Manufacturing	Summer	3
	ADM 165	Quality Engineering I: Quality History and Statistics	Fall, Spring, Summer	3
	ADM 166	Quality Engineering II: Variation and Reliability	Fall, Spring, Summer	3
	CNC 215/216	Quality Control and Assurance / Quality Control II	Fall, Spring, Summer	3
	SPH 106 <i>or</i> SPH 107	Fundamentals of Oral Communication <i>or</i> Fundamentals of Public Speaking	Fall, Spring, Summer	3
<b>Semester 4</b> 18-19 credit hours <b>MMT AAS Achieved</b>	ADM 170	Quality Engineering III: Process Quality	Fall, Spring, Summer	3
	ADM 180	Quality Engineering IV: Quality Auditing/AIAG Core Tools	Fall, Spring, Summer	3
	ADM 210	Lean Six Sigma	Fall, Spring, Summer	3
	Area II	Fine Arts or Humanities	Fall, Spring, Summer	3
	Area III	Math or Natural Science Elective	Fall, Spring, Summer	3-4
	Area IV	History or Social/Behavioral Science	Fall, Spring, Summer	3
<b>Total Hours</b>				<b>62-63</b>

\*Course(s) may be offered in additional semesters but are only assured to run in semester(s) indicated. It is **highly** recommended for course(s) to be completed in the semester(s) indicated.

Part-time students and full-time students desiring to begin the MMT program of study during a spring or summer semester should consult with an academic advisor to establish an alternate degree completion pathway.

\*\*The Modern Manufacturing-Production AAS degree includes 18 credit hours of electives from an eligible program of study. A minimum of 12 credit hours of elective coursework must be completed within a single program of study. A maximum of 6 credit hours of AUT Co-op coursework will be accepted toward the 18 elective credit hours. Programs of study from which electives can be selected include AUT, BUS, CIS, DDT, ELT, ILT, MTT, and WDT.

### Area II – Area IV Options

Area II	
<u>Humanities and Fine Arts</u>	
Art 100	Art Appreciation
ART 203	Art History I
ART 204	Art History II
ENG 251	American Literature I
ENG 252	American Literature II
ENG 261	English Literature I
ENG 262	English Literature II
ENG 271	World Literature I
ENG 272	World Literature II
HUM 298	Directed Studies in Humanities
MUS 101	Music Appreciation
PHL 206	Ethics and Society
REL 100	History of World Religions
REL 151	Survey of Old Testament
REL 152	Survey of New Testament
SPA 101	Introduction to Spanish I
SPA 102	Introduction to Spanish II
THR 120	Theatre Appreciation

Area III	
<u>Math or Natural Science</u>	
AST 220	Introduction to Astronomy
BIO 101 <b>or</b>	Introduction to Biology I <b>or</b>
BIO 103	Principles of Biology I
BIO 102 <b>or</b>	Introduction to Biology II <b>or</b>
BIO 104	Principles of Biology II
CHM 104 <b>or</b>	Introduction to Inorganic Chemistry <b>or</b>
CHM 111	College Chemistry I
CHM 105 <b>or</b>	Introduction to Organic Chemistry <b>or</b>
CHM 112	College Chemistry II
CHM 221	Organic Chemistry I
CHM 222	Organic Chemistry II
GEO 101	Principles of Physical Geography I
GEO 102	Principles of Physical Geography II
MTH 100	Intermediate College Algebra
MTH 110	Finite Mathematics
MTH 112	Precalculus Algebra
MTH 113	Precalculus Trigonometry
MTH 115	Precalculus Algebra & Trigonometry
MTH 120	Calculus and Its Applications
MTH 125	Calculus I
MTH 126	Calculus II
MTH 227	Calculus III
MTH 237	Linear Algebra
MTH 238	Applied Differential Equations I
MTH 265	Elementary Statistics
PHS 111	Physical Science I
PHS 112	Physical Science II
PHY 201	General Physics I -Trig Based
PHY 202	General Physics II-Trig Based
PHY 213	General Physics with Calculus I
PHY 214	General Physics with Calculus II

Area IV	
<u>History, Social, and Behavioral Sciences</u>	
ANT 200	Introduction to Anthropology
ANT 220	Cultural Anthropology
ECO 231	Principles of Macroeconomics
ECO 232	Principles of Microeconomics
GEO 100	World Regional Geography
HIS 101	Western Civilization I
HIS 102	Western Civilization II
HIS 201	United States History I
HIS 202	United States History II
POL 200	Introduction to Political Science
POL 211	American National Government
PSY 200	General Psychology
PSY 210	Human Growth & Development
SOC 200	Introduction to Sociology
SOC 210	Social Problems