

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

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

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

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



## Area II – Area IV Options

Area II				
<b>Humanities and Fine Arts</b>				
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 I			
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				
Math or Natural Science				
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 or			
CHM 111	College Chemistry I			
CHM 105 <b>or</b>	Introduction to Organic Chemistry or			
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				
History, Social, and Behavioral Sciences				
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			