

# KSU – Manufacturing Operations BAS Degree 2015-16 Curriculum Checklist

Course Description		Hours	Prerequisites
<i>Essential Skills</i>	Area A	9 credits	
ENGL 1101 English Composition I	3-0-3	3	
ENGL 1102 English Composition II	3-0-3	3	ENGL 1101 (“C” or better)
MATH 1111 College Algebra	3-0-3	3	
<i>Institutional Option – Critical Thinking Skills</i>	Area B	5 credits	
STS 2105 Science Technology & Society*	2-0-2	2	
COM 1100 Human Communication*	3-0-3	3	
<i>Literature of the World – Choose one course:</i>	Area C1	3 credits	
ENGL 2110 World Literature	3-0-3	3	ENGL 1102 (“C” or better)
ENGL 2111 Early World Literature	3-0-3	3	ENGL 1102
ENGL 2112 World Literature mid 1600s to Present	3-0-3	3	ENGL 1102
ENGL 2120 British Literature	3-0-3	3	ENGL 1102
ENGL 2121 Early British Literature	3-0-3	3	ENGL 1102
ENGL 2122 British Literature late 1700s to Present	3-0-3	3	ENGL 1102
ENGL 2130 American Literature	3-0-3	3	ENGL 1102
ENGL 2131 Early American Literature	3-0-3	3	ENGL 1102
ENGL 2132 American Lit. mid 1800s to Present	3-0-3	3	ENGL 1102
ENGL 2300 African-American Literature	3-0-3	3	ENGL 1102
<i>Arts &amp; Culture of the World – Choose one course:</i>	Area C2	3 credits	
ART 1107 Art in Society	3-0-3	3	
DANC 1107 Dance in Society	3-0-3	3	
MUSI 1107 Music in Society	3-0-3	3	
TPS 1107 Theatre in Society	3-0-3	3	
<i>Science, Math &amp; Technology</i>	Area D1	3 credits	
MATH 1107 Introduction to Statistics	3-0-3	3	MATH 1111 (“C” or better)
<i>Science, Math &amp; Technology</i>	Area D2	7 credits	
Lab Science I Lecture	3-0-3	3	Varies
Lab Science I Lab	0-2-1	1	Lab can be taken simultaneously
Lab Science II Lecture	3-0-3	3	Varies
Lab Science II Lab	0-2-1	1	Lab can be taken simultaneously
(Extra hour to Area F)			
<i>Social Sciences - Choose one course:</i>	Area E1	3 credits	
POLS 1101 American Government	3-0-3	3	
<i>Social Sciences - Choose one course:</i>	Area E2	3 credits	
HIST 2111 U.S. History to 1877	3-0-3	3	
HIST 2112 U.S. History since 1877	3-0-3	3	
<i>Social Sciences - Choose one course:</i>	Area E3	3 credits	
HIST 1100 Introduction to World History	3-0-3	3	
HIST 1111 Pre-Modern World History	3-0-3	3	
HIST 1112 Modern World History	3-0-3	3	
<i>Social Sciences - Choose one course:</i>	Area E4	3 credits	
ECON 1100 Global Economics	3-0-3	3	
ECON 2100 Principles of Microeconomics	3-0-3	3	MATH 1111 or higher

Course Description		Hours	Prerequisites
<i>Major Core</i>	Area F	18 credits	
Area F Technical Block up to 17 Credit Hours		17	
Plus one extra hour from Area D2		1	
	Total Core	60 credits	
Major Technical Block up to 21 Credit Hours		21	
<i>Major Courses Required</i>			
ACCT 2100 Introduction to Financial Accounting I	3-0-3	3	ENGL 1101 and MATH 1101 or higher
IET 2305 Role of IE in Industrial Systems	3-2-4	4	
IET 3322 Work Measurement and Ergonomics	2-4-4	4	
IET 3339 Statistical Quality Control	3-0-3	3	MATH 1107
IET 3356 Quality Concepts and Sys. Design	3-0-3	3	MATH 1107
IET 3424 Engineering Economy	3-0-3	3	MATH 1107
IET 4422 Facilities Design, Plant Layout, & M H	2-4-4	4	IET 3322
IET 4151 Operations Management for Engineers	3-0-3	3	MATH 1107
	Total Major	48 Credits	
<i>Technical Electives (Any 4 Courses from below)</i>		12 Credits	
IET 2449 Logistics & Supply Chain Management	3-0-3	3	
ECET 3000 Electrical Principles	3-3-4	4	PHYS 1112/1112L
MET 1311 Manufacturing Processes	3-0-3	3	
MET 2322 Metrology and CNC Machining	3-0-3	3	EDG 1212, MET 1000 & MET 1321
TCOM 2010 Technical Writing	3-0-3	3	
IET 4115 Human Resources for Engineers	3-0-3	3	
IET 3511 Sustainability Engineering	3-0-3	3	
IET 4135 IET Project Management	3-0-3	3	
Total Credit Hours		120	

\* Recommended courses