



**BACHELOR of Science in Advanced Manufacturing**  
 Department of Architectural and Manufacturing Sciences  
 Ogden College of Science and Engineering  
 Western Kentucky University

The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected.

**SAMPLE - 4 year plan**

FIRST YEAR	Fall Semester		Spring Semester	
<b>Finance Elective Options: ACCT 200 FIN 161 MKT 220</b>	ENG 100 Intro to College Writing (F-W1)	3	ENG 200 Intro to Literature (E-AH)	3
	MATH 117 Trigonometry (F-QR)	3	COMM 145 Fund of Public Speaking & Communications (F-OC)	3
	Arts & Humanities (E-AH)	3	Finance Elective (E-SB) (See note)	3
	Natural and Physical Sciences, with Lab (E-NS, SL)	3	HIST 101 World History I OR HIST 102 World History II (F-SB)	3
	AMS 120 Basic Electricity	3	AMS 163 Architectural Drafting OR AMS 205 CADD for Manufacturing	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

SECOND YEAR	Fall Semester		Spring Semester	
<b>Business Law Elective Options: MGT 200 MGT 301 MGT 333</b>	Natural and Physical Sciences, (E-NS)	3	ENG 300 Writing in the Disciplines (F-W1)	3
	AMS 217 Industrial Materials	3	AMS 227 Introduction to Manufacturing Methods	3
	AMS 271 Industrial Statistics	3	Business Law Elective (See note)	3
	World Language, if needed, OR General Elective	3	General Elective	3
	General Elective	3	General Elective	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

**World Language Proficiency:** All students entering in Fall 2014 or later must demonstrate proficiency in a world language at the Novice High level before completing 60 credit hours. Novice high is the ability to communicate in writing and speaking on familiar topics in simple sentences. To meet this requirement, students may take college language courses or take a proficiency test. For more information go to [www.wku.edu/modernlanguages/placement/](http://www.wku.edu/modernlanguages/placement/).

**Colonnade Plan:** All students entering in fall 2014 or later must complete 39 hours in 13 specific Colonnade areas. Colonnade areas are listed in parentheses marked in blue after the corresponding classes. Some areas may have specific course requirements while others can be chosen from selected lists of options. For more details and to see lists of options, go to [http://www.wku.edu/colonnade/documents/approved\\_colonnade\\_courses\\_website.pdf](http://www.wku.edu/colonnade/documents/approved_colonnade_courses_website.pdf)

THIRD YEAR	Fall Semester		Spring Semester	
<b>Communications Elective Options: BUS 214C COMM 345 COMM 346 COMM 349 COMM 362 MGT 361</b>	AMS 310 Work Design/Ergonomics	3	AMS 390 Project Management	3
	AMS 356 Systems Design and Operations	3	AMS 371 Quality Assurance	3
	Communications Elective (See note)	3	AMS 328 Robotics and Machine Vision	3
	AMS 394 Lean Manufacturing	3	AMS 396 Introduction to Supply Chain Management	3
	Connections: Social and Cultural (K-SC)	3	Connections: Local to Global Course (K-LG)	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

FOURTH YEAR	Fall Semester		Spring Semester	
	AMS 342 Manufacturing Operations	3	AMS 430 Technology Management/Supervision/Team Building	3
	AMS 343 Automated Systems	3	AMS 490 Senior Research	3
	AMS 352 Food Processing: Unit Operations	3	UC 400 Faculty-Mentored Undergraduate Research experience <b>OR</b> AMS 398 Internship	1
	AMS 370 Computer Numerical Control	3	General Elective	3
	Connections: Systems (K-SY)	3	General Elective	3
			General Elective	
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

**Total Credit Hours: 120**

**For more information:**

**Department:** Architectural and Manufacturing Sciences

**Website:** <http://www.wku.edu/ams>

**Phone:** (270) 745-3251