

**Arkansas State University - Jonesboro**  
**Degree: Bachelor of Science**  
**Major: Engineering Technology    Emphasis: Manufacturing and CAD**  
**2023-24**

Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may not be able to complete this program of study in eight (8) semesters. Developmental courses do not count toward total degree hours. **Students having completed college level courses prior to enrollment will be assisted by their advisor in making appropriate substitutions. In most cases, general education courses may be interchanged between semesters.** A minimum of 40 hours of upper division credit (3000-4000 level) is required for this degree. Mandatory state and institutional assessment exams will be required during your degree program. **Failure to participate in required assessments may delay graduation.**

Year 1				Year 1			
Fall Semester				Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
ENG 1003	Composition I	3	X	ENG 1013	Composition II	3	X
SCOM 1203	Oral Communication	3	X	ECON 2313	Principles of Macroeconomics	3	X
MATH 1023	College of Algebra	3	X	MATH 1033 or MATH 1054	Plane Trigonometry or Precalculus Mathematics	3/4	
ANTH 2233 or HIST 1013 or 1023 or GEOG 2613	Intro to Cultural Anthropology or World Civilization to 1660 or World Civilization since 1660 or Intro to Geography	3	X	ENG 2003 or ENG 2013 or PHIL 1103	Intro to Lit I or Intro to Lit II or Intro to Philosophy	3	X
UC 1013	Making Connections (or equivalent course)	3		Art 2503 or Mus 2503 or Thea 2503	Fine Arts Visual or Musical or Theatre	3	X
<b>Total Hours</b>		<b>15</b>		<b>Total Hours</b>		<b>15/16</b>	
Year 2				Year 2			
Fall Semester				Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
PHY 2054	General Physics I	4	X	BIOL 1001	Laboratory for Biological Science	1	X
TECH 2703	Technical Graphics and AutoCAD	3		BIOL 1003	Biological Science	3	X
TECH 2863	Principles of Technology	3		TECH 4823	Quality Assurance	3	
TECH 3773 or STAT 3232	Statistics or Applied Statistics	3		HIST 2763/2773 or POSC 2103	US History to or since 1876 or Intro to US Government	3	X
ENGR 1412	Software Apps for Engineers	2		TECH 4743	Computer Numeric Control	3	
				EGRM 3013	Project Management and Practice	3	
<b>Total Hours</b>		<b>15</b>		<b>Total Hours</b>		<b>16</b>	
Year 3				Year 3			
Fall Semester				Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
RET 3113	Fundamentals and Applications of Renewable Energy	3		CS 1114	Concepts of Programming	4	
TECH 4813	Operations Systems Research	3		TECH 4853	Lean 6 Sigma for Manufacturing	3	
TECH 3413	Auto CAD/Inventor	3		TECH 3433	AutoCAD 3D Modeling	3	

<b>TECH 3453</b>	Advance Technology Design - SolidWorks	<b>3</b>			<b>TECH 4883</b>	Work Center Management	<b>3</b>	
<b>ELECTIVE</b>	Elective 1	<b>3</b>			<b>ELECTIVE</b>	Elective 2	<b>3</b>	
<b>Total Hours</b>		<b>15</b>			<b>Total Hours</b>		<b>16</b>	
<b>Year 4</b>				<b>Year 4</b>				
<b>Fall Semester</b>				<b>Spring Semester</b>				
<b>Course No.</b>	<b>Course Name</b>	<b>Hrs</b>	<b>Gen Ed</b>		<b>Course No.</b>	<b>Course Name</b>	<b>Hrs</b>	<b>Gen Ed</b>
<b>TECH 3863</b>	Industrial Safety	<b>3</b>			<b>TECH 3843</b>	Manuf. Materials and Processes	<b>3</b>	
<b>MGMT 3123</b>	Organizational Behavior	<b>3</b>			<b>TECH 3473</b>	Tool Design	<b>3</b>	
<b>ENG 3043</b>	Technical Writing	<b>3</b>			<b>TECH 4873</b>	Motion and Time Study	<b>3</b>	
<b>ELECTIVE</b>	Elective 3	<b>3</b>			<b>TECH 389V OR TECH 489V</b>	Occupational Internship OR Special Problems in Technology	<b>3</b>	
<b>ELECTIVE</b>	Elective 4	<b>3/4</b>						
<b>Total Hours</b>		<b>15/16</b>			<b>Total Hours</b>		<b>12</b>	

**Total Jr/Sr Hours after 1st 30**

**40**

**Total Degree Hours**

**120**

**Graduation Requirements:**

Completion of HIST 2763 or HIST 2773 or POSC 2103

English Proficiency (Grade of C or better in ENG 1003 and ENG 1013)

Grade C or better in all Technology Core courses

2.00 GPA at ASU

2.00 GPA Overall

Maximum of 25% of the degree program via examination, PLA, Military or similar means; CLEP (30 hrs max)

40 JR/SR Hours **after completing 30 hours**

120 Total Credit Hours

18 of last 24 hours must be ASU-Jonesboro courses

Complete half of the last 50% of semester hours through the A-State campus