

**Associate in Applied Science (A.A.S.) in Mechanical Engineering Technology – A40320**

**Effective Fall 2020**

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

<b>Course Requirements</b>	<b>Hours</b>	<b>Pre-&amp;-Corequisites</b>	<b>Course Completed</b>
<b>I. Communication</b>	<b>6 Total</b>		
ENG 111 Writing & Inquiry <b>(Select two courses from the following)</b>	3	(Co. req. ENG 011)   BSP 4002   ENG 002   DRE 097	_____
COM 110 Introduction to Communication	3	NONE	_____
COM 120 Introduction to Interpersonal Communication	3	NONE	_____
COM 231 Public Speaking	3	NONE	_____
<b>II. Humanities/Fine Arts</b>	<b>3 Total</b>		
<b>(Select one course from the following)</b>			
PHI 240 Introduction to Ethics	3	ENG 111	_____
HUM 110 Technology and Society	3	NONE	_____
HUM 115 Critical Thinking	3	DRE 098   ENG 002   BSP 4002   ENG 111	_____
<b>III. Social/Behavioral Sciences</b>	<b>3 Total</b>		
<b>(Select one course from the following)</b>			
ECO 251 Prin of Microeconomics	3	NONE	_____
PSY 150 General Psychology	3	NONE	_____
SOC 210 Introduction to Sociology	3	NONE	_____
PSY 118 Interpersonal Psychology	3	NONE	_____
<b>IV. Mathematics</b>	<b>3-4 Total</b>		
<b>(Select one courses from the following)</b>			
MAT 171 Pre-calculus Algebra	4	(Co. req. MAT 071)   BSP 4003   MAT 003   DMA 025, 040, 050   DMA 025, 045 DMA 010, 020, 030, 045   DMA 010, 020, 030, 040, 050	_____
MAT 121 Algebra/Trigonometry I	3	(Co. req. MAT 021)   BSP 4003   MAT 003   DMA 010, 020, 030, 045   DMA 025, 045   DMA 025, 040, 050   DMA 010, 020, 030, 040, 050	_____
<b>V. Core Major Courses</b>	<b>21 Total</b>		
DFT 151 CAD I	3	NONE	_____
DFT 154 Intro to Solid Modeling	3	NONE	_____
HYD 110 Hydraulics / Pneumatics I	3	NONE	_____
MEC 145 Manufacturing Materials I	3	NONE	_____
PHY 131 Physics - Mechanics	4	MAT 121   MAT 171	_____
EGR 250: Statics and Strength of Materials	5	MAT 121   MAT 171	_____
<b>VI. Other Major Courses</b>	<b>28 - 32 Total</b>		

**\*Complete a minimum of 28 credit hours from the courses listed below**

**Required:**

ISC 112 Industrial Safety	2	NONE	_____
MEC 231 Computer Aided Manufacturing I	3	NONE	_____
ELC 128 Intro to PLC	3	NONE	_____
TDP 110 Intro to 3-D Printing	3	NONE	_____
EGR 285 Design Project	2	NONE	_____

**(Select one course from the following)**

ACA 111 College Student Success	1	NONE	_____
ACA 122 College Transfer Success	1	NONE	

**(Select one course from the following)**

EGR 150: Introduction to Engineering	2	NONE	_____
EGR 115: Introduction to Engineering Technology	3	NONE	

**(Select one course from the following)**

MEC 111: Machine Processes I	3	NONE	_____
MAC 141: Machining Applications I	4	NONE	

**(Select one course from the following)**

MAC 121: Intro to CNC	2	NONE	_____
MEC 128: CNC Machining Processes	4	NONE	

**(Select one course from the following)**

CIS 110: Intro to Computers	3	NONE	_____
CSC 134: C++ Programming	3	NONE	
CSC 151: JAVA Programming	3	NONE	

**(Select one course from the following)**

CSC 120: Computing Fundamentals I	4	BSP 4003   MAT 003   MAT 171   MAT 121   DMA 025, 045   DMA 025, 040, 050   DMA 010, 020, 030, 045   DMA 010, 020, 030, 040, 050	
CSC 134: C++ Programming	3	NONE	
CSC 151: JAVA Programming	3	NONE	_____
ELC 111: Intro to Electricity	3	NONE	
ELC 117: Motors and Controls	4	NONE	
ATR 112: Intro to Automation	3	NONE	
MEC 232: Computer Aided Manufacturing II	3	MEC 231	

**\*Students should select these courses based on their intended major and Transfer University.**

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**Total Hours**

**64/69**

- i. **GRADUATION REQUIREMENTS:** You must complete an Application for Graduation during the first ten days of the semester you are graduating. Please check with receiving institution for additional transfer requirements and policies such as foreign language, health and physical education requirements.