

**PROGRAM: Associate in Engineering NC A&T State University Co-Admission  
Mechanical/Aerospace Engineering Pathway, AE A10500ME Advising Guide  
2025-2026**

<b>FALL SEMESTER I</b>				
<b>8 Weeks Session 1</b>	<b>8 Weeks Session 2</b>	<b>Course</b>	<b>Credit Hours</b>	<b>Program Notes</b>
X		ACA-122 College Transfer Success	1	
X		EGR-150 Intro. To Engineering	2	
X		CHM 151 General Chemistry I <i>Pre-req: MAT 003 (P3 Grade) or MAT-035</i>	4	
	X	MAT-271 Calculus I <i>Pre-req C or better in MAT 172 or MAT 175</i>	4	
	X	ENG 111 Writing and Inquiry <i>Pre-req ENG-002 or ENG-025</i>	3	
	X	DFT-170 Engineering Graphics	3	Fall only

<b>SPRING SEMESTER I</b>				
<b>8 Weeks Session 1</b>	<b>8 Weeks Session 2</b>	<b>Course</b>	<b>Credit Hours</b>	<b>Program Notes</b>
X		ENG-112 Writing and Research in the Disciplines <i>Pre-req C or better in ENG-111</i>	3	
X		MAT-272 Calculus II <i>Pre-req C or better in MAT-271</i>	4	
	X	ECO-251 Principles of Microeconomics <i>Pre-req ENG 002 (P2 grade) or ENG-025 and MAT 003 (P2 grade) or MAT-035</i>	3	
	X	PHY-251 General Physics I <i>Pre-req C or better in MAT-271; Co-req MAT-272</i>	4	
	X	Humanities/Fine Arts Elective	3	

<b>OPTIONAL- SUMMER SEMESTER</b>				
<b>8 Weeks</b>		<b>Course</b>	<b>Credit Hours</b>	<b>Program Notes</b>
X		PHY-251 General Physics I <i>Pre-req C or better in MAT-271; Co-req MAT-272</i>	4	<i>*If not taken in Spring I Semester</i>

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<b>FALL SEMESTER II</b>				
<b>8 Weeks Session 1</b>	<b>8 Weeks Session 2</b>	<b>Course</b>	<b>Credit Hours</b>	<b>Program Notes</b>
X		EGR-220 Engineering Statics <i>Pre-req PHY 251; Co-req MAT 272</i>	3	Fall only
X		MAT-273 Calculus III <i>Pre-req C or better in MAT 272</i>	4	
	X	PHY-252 General Physics II <i>Pre-req C or better in MAT 272 and PHY 251</i>	4	
	X	Social/Behavioral Science Elective	3	

<b>SPRING SEMESTER II</b>				
<b>8 Weeks Session 1</b>	<b>8 Weeks Session 2</b>	<b>Course</b>	<b>Credit Hours</b>	<b>Program Notes</b>
X		MAT-285 Differential Equations <i>Pre-req C or better in MAT 272</i>	3	
X		EGR-228 Intro. To Solid Mechanics <i>Pre-req EGR-220</i>	3	Spring only
	X	EGR-225 Engineering Dynamics <i>Pre-req EGR 220, Co-req MAT 273</i>	3	Spring only
	X	COM-231 Public Speaking	3	
	X	Humanities/Fine Arts Elective	3	