

**PROGRAM: Associate in Engineering NC A&T State University Co-Admission Chemical
Engineering Pathway, AE A10500CH Advising Guide
2025-2026**

FALL SEMESTER I				
8 Weeks Session 1	8 Weeks Session 2	Course	Credit Hours	Program Notes
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	

SPRING SEMESTER I				
8 Weeks Session 1	8 Weeks Session 2	Course	Credit Hours	Program Notes
X		CHM-152 General Chemistry II <i>Pre-req C or better in CHM-151</i>	4	
X		MAT-272 Calculus II <i>Pre-req C or better in MAT-271</i>	4	
	X	ENG-112 Writing and Research in the Disciplines <i>Pre-req C or better in ENG-111</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	

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

FALL SEMESTER II				
8 Weeks Session 1	8 Weeks Session 2	Course	Credit Hours	Program Notes
X		EGR-220 Engineering Statics <i>Pre-req PHY 251; Co-req MAT 272</i>	3	Fall only
X		CHM 251 Organic Chemistry I <i>Pre-req C or better in CHM 152</i>	4	Fall only
	X	PHY-252 General Physics II <i>Pre-req C or better in MAT 272 and PHY 251</i>	4	
	X	MAT-273 Calculus III <i>Pre-req C or better in MAT 272</i>	4	

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SPRING SEMESTER II				
8 Weeks Session 1	8 Weeks Session 2	Course	Credit Hours	Program Notes
X		BIO 111 General Biology I Pre-req ENG 002 (P2 grade) or ENG-025	4	
X		COM-231 Public Speaking	3	
	X	ECO-251 Principles of Microeconomics <i>Pre-req ENG 002 (P2 grade) or ENG-025 and MAT 003 (P2 grade) or MAT-025</i>	3	
	X	Social/Behavioral Science Elective	3	
	X	Humanities/Fine Arts Elective	3	