

**2020-21 Sequence of Courses  
Cluster: STEM**

**Pathway: Engineering and Technology  
State Program Area: Applied Engineer**

Engineering byDesign CIP: 14.0103 720 hours	Pilot CIP: 36.0207 480 hours	Unmanned Aircraft Systems CIP: 36.0119 480 hours	SREB Integrated Productions Technology CIP: 15.0001 480 hours	SREB Innovations in Science & Technology CIP: 14.0103 480 hours
Technology Foundations OCAS 8828 120 hours	<b>Aviation I</b> Launching into Aviation Exploring Aviation & Aerospace OCAS 8874 120 hours	<b>Aviation I</b> Launching into Aviation Exploring Aviation & Aerospace OCAS 8874 120 hours	Advanced Technology for Design and Production OCAS 8862 120 hours	The Nature of Science and Technology OCAS 8855 120 hours
Technology and Society OCAS 8847 120 hours	<b>Aviation II</b> Introduction to Flight Aircraft Systems OCAS 8875 120 hours	<b>Aviation II</b> Introduction to Flight Aircraft Systems OCAS 8875 120 hours	Systems of Advanced Technology OCAS 8863 120 hours	Core Applications of Science and Technology OCAS 8856 120 hours
Technological Design OCAS 8848 120 hours	<b>Aviation III - Pilot</b> The Flying Environment Navigation & Human Factors OCAS 8876 120 hours	<b>Aviation III - UAS</b> The Flying Environment UAS Theory & Operations OCAS 8876 120 hours	Mechatronics Systems for Advanced Production OCAS 8864 120 hours	Impact of Science & Technology OCAS 8857 120 hours
Advanced Design Applications OCAS 8827 120 hours	<b>STEM Capstone</b> Aviation Safety Aviation Capstone OCAS 8705 120 hours	<b>STEM Capstone</b> UAS Design & Application Aviation Capstone OCAS 8705 120 hours	Design for the Production of Advanced Products OCAS 8865 120 hours	Creativity and Innovations OCAS 8858 120 hours
Advanced Technological Applications OCAS 8825 120 hours				
STEM Capstone OCAS 8705 120 hours				

**CIP: 14.0103 - Applied Engineering**

**CIP: 36.0207 - Remote  
Aircraft Pilot**

**CIP: 36.0119 - Aircraft Pilot  
(Private)**

**CIP: 15.0001 - Applied Engineering  
Technolgoeis/Technicians**

**CIP: 14.0103 - Applied Engineering**