

Colorado CTE Course – Scope and Sequence

Course Name	Avionics for Pilots/Instrument Fundamentals/Instrument Pilot Ground School (MSU AES 2120 or Colorado Community College Course AVT111) This is a concurrent enrollment course with MSU Denver or one of the Colorado Community Colleges/Technical Schools.		Course Details	Credit = 0.5	
			Course = 0.50 Carnegie Unit Credit	CTE Credential: CTE Transportation (Additional instructor qualifications are determined by MSU Denver or the designated Colorado community college.)	
Course Description	In this course, the student studies aeronautics, regulations, meteorology, and instrument procedures in preparation for the FAA instrument knowledge examination.				
Note:	This is a suggested scope and sequence for the course content. The content will work with any textbook or instructional resource. If locally adapted, make sure all essential knowledge and skills are covered.				
SCED Identification #		Schedule calculation based on 60 calendar days of a 90-day semester. Scope and sequence allows for additional time for guest speakers, student presentations, field trips, remediation, or other content topics.			
All courses taught in an approved CTE program must include Essential Skills embedded into the course content. The Essential Skills Framework for this course can be found at https://www.cde.state.co.us/standardsandinstruction/essentialskills					
Instructional Unit Topic	Suggested Length of Instruction	CTE or Academic Standard Alignment	Competency / Performance Indicator	Outcome / Measurement	CTSO Integration
TOPICAL OUTLINE: I. STAGE I A. Training opportunities, Advanced human factors, Aviation physiology B. Flight Instrument Systems C. Attitude Instrument Flying			Demonstrate mastery in the areas of Preflight preparation and procedures, Air traffic control clearances and procedures, Flight by reference to instruments, Navigation aids, Instrument approach procedures, Emergency operations, and Post flight procedures, by passing the FAA		

<p>D. Instrument Navigation</p> <p>E. Airports, Airspace and Flight Information</p> <p>F. Air Traffic Control System</p> <p>G. ATC Clearances</p> <p>H. Stage I Exam</p> <p>II. Stage II</p> <p>A. Departure Charts and procedures</p> <p>B. En-route and Area Charts and Procedures</p> <p>C. Holding Procedures</p> <p>D. Arrival Charts and Procedures</p> <p>E. Approach Charts and Procedures</p> <p>F. VOR and NDB Approaches and Procedures</p> <p>G. ILS Approaches and Procedures</p> <p>H. GPS and RNAV Approaches and Procedures</p> <p>I. Stage II Exam</p>			<p>Instrument Rating Knowledge Exam with a minimum score of 70%.</p>		
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