

CTE Course Description and Standards Crosswalk

Course Information

Course Name	Private Pilot Ground School
Course Number	86711/86712
Number of High School Credits	1
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Aviation Technology
Date of district Course Revision	March 2014

Career & Technical Student Organization (CTSO)

CTSO embedded in this sequence	SkillsUSA
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Occupational Standards

Source of Occupational Standards	Federal Aviation Administration
Names/Numbers of Occupational Standards	FAR 1-1399, 2011

Registration Information

Course Description (brief paragraph – as shown in your student handbook or course list)	Designed as an exploratory class, this course prepares students for an entry level position in the air transportation industry, by introducing them to a wide variety of available career options. This course is designed to be “hands-on”, covering the basic elements of Professional Piloting, Air Traffic Control, and Aviation Administration. This class will prepare students to pass the FAA Private Pilot Ground School knowledge test.
Instructional Topic Headings (please separate each heading by a semi-colon)	Identify the appropriate FAA regulations and procedures for pilot operations in the airport environment. Demonstrate an understanding of aviation physiology by making safe, sound aeronautical decisions. Explore the basic nature of weather and the composition of the atmosphere, weather theory, and weather related flight situations. Demonstrate a working knowledge of cross country flight planning. Demonstrate a working knowledge of our national airway system. Participate in discussions with guest speakers from a variety of career fields, to include branches of the military, ROTC, CAP, FAA.

Summative Assessments and Standards

Technical Skills Assessment (TSA)	FFA Private Pilot Ground School
Course addresses:	
New Alaska ELA and Math Standards	Yes
Alaska Cultural Standards	Yes
All Aspects of Industry (AAI)	Yes
Core Technical Standards	Yes
Employability Standards	Yes

Employability Standards

Source of Employability Standards	State of Alaska
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Tech Prep

Current Tech Prep Articulation Agreement? (Y/N)	No
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DISTRICT NAME: Mat-Su Borough School District

Date of Current Agreement	
Postsecondary Institution Name	
Postsecondary Course Name	
Postsecondary Course Number	
# of Postsecondary Credits	

Additional CTE Course Information

Author	
Course developed by	Ben Eveland
Course adapted from	UAA
Date of previous course revision	2011
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/N)	No

Standards Alignment

Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
Identify the appropriate FAA regulations and procedures for pilot operations in the airport environment.	FAR 91, 61, 71 AIM 2, 3, 4, 5, 6, 7, 9	TD-OPS 2, 3 TD-SYS 1, 2, 3	SL.9-12.1.a-d; 4 L.9-12.4.a-d; 6 RST.9-12.1; 3; 4; 5; 7; 9; 10		A5, A7, B2, B4	A2, A5, A6, A7	Technical Skills Health & Safety	FAR Practice Test Questions
Demonstrate an understanding of aviation physiology by making safe, sound aeronautical decisions. Describe the visual illusions that pilots can experience: autokinesis, night myopia and landing illusions.	FAR 120, 67 AIM 8	TD-OPS 1, 2, 3 TD-SYS 1, 2, 3	SL.9-12.1.a-d; 4 L.9-12.4.a-d; 6 RST.9-12.1; 3;	A-SSE.4 A-CED.4 A-REI.1 S-IC.6 S-MD.6 S-MD.7	B2, B4	A2, A5, A6, A7	Technical Skills Health & Safety	FAR Practice Test Questions

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Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
			4; 5; 7; 9; 10					
Decode METARs (routine aviation observations), TAF's (Terminal aerodrome forecasts), ATIS (automatic terminal information service), PIREPS (pilot weather report), weather charts and symbols, and radar reports.	FAR 91 AIM 7	TD-OPS 1, 2, 3 TD-SYS 1, 2, 3	SL.9- 12.1.a-d; 4 L.9- 12.4.a-d; 6 RST.9- 12.1; 3; 4; 5; 7; 9; 10	S-IC.6 S-ID.9 S-MD.6 S-MD.7	B2, B4	A2, A5	Technical Skills	FAR Practice Test Questions
Explore the basic nature of weather and the composition of the atmosphere, weather theory, and weather related flight situations.	FAR 91 AIM 7	TD-OPS 1, 2, 3 TD-SYS 1, 2, 3	SL.9- 12.1.a-d; 4 L.9- 12.4.a-d; 6 RST.9- 12.1; 3; 4; 5; 7; 9; 10	S-IC.6 S-ID.9 S-MD.6 S-MD.7	B2, B4	A2, A5	Technical Skills	FAR Practice Test Questions Simulator Demo
Demonstrate a working knowledge of cross country flight planning.	FAR 91 AIM 1, 3, 4, 5, 9	TD-OPS 1, 2, 3 TD-SYS 1, 2, 3	SL.9- 12.1.a-d; 4 L.9- 12.4.a-d; 6 RST.9- 12.1; 3; 4; 5; 7; 9; 10	N-Q.1 N-Q.2 N-Q.3 A-CED.4 A-REI.1 G-CO.4 G-CO.5 S-ID.1 S-IC.6	B2, B4	A2, A5	Technical Skills	FAR Practice Test Questions Simulator Demo

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Demonstrate a basic understanding of navigation including: dead reckoning, and electronic navigation (VDR, ADF, GPS).	FAR 91 AIM 1, 9	TD-OPS 1, 2, 3 TD-SYS 1, 2, 3	SL.9- 12.1.a-d; 4 L.9- 12.4.a-d; 6 RST.9- 12.1; 3; 4; 5; 7; 9; 10	N-Q.1 N-Q.2 N-Q.3 A-CED.4 A-REI.1 G-CO.4 G-CO.5 S-ID.1 S-IC.6	B2, B4	A2, A5	Technical Skills	FAR Practice Test Questions
Demonstrate a working knowledge of aircraft performance charts, charts, weight and balance, and flight computers.	FAR 91 AIM 1, 9	TD-OPS 1, 2, 3 TD-SYS 1, 2, 3	SL.9- 12.1.a-d; 4 L.9- 12.4.a-d; 6 RST.9- 12.1; 3; 4; 5; 7; 9; 10	N-Q.1 N-Q.2 N-Q.3 A-CED.4 A-REI.1 G-CO.4 G-CO.5 S-ID.1 S-IC.6	B2, B4	A2, A5	Technical Skills	FAR Practice Test Questions
Apply and navigate an assigned mission on a flight simulator.	FAR 71 AIM 1, 5, 9	TD-OPS 1, 2, 3 TD-SYS 1, 2, 3	SL.9- 12.1.a-d; 4 L.9- 12.4.a-d; 6 RST.9- 12.1; 3; 4; 5; 7; 9; 10	N-Q.1 N-Q.2 N-Q.3 A-CED.4 A-REI.1 G-CO.4 G-CO.5 S-ID.1 S-IC.6	B2, B4	A2, A5	Technical Skills	Simulator Demo
Demonstrate a working knowledge of our national airway system, including	FAR 91 AIM 1, 2, 3, 4,	TD-OPS 1, 2, 3	SL.9- 12.1.a-d;	A-CED.4 A-REI.1	B2, B4	A2, A5, B2, B4	Technical Skills	FAR Practice Test

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communication and navigation equipment and procedures required by the FARs and AIM, stressing the importance of correct radio procedure and phraseology.	5, 6, 9,	TD-SYS 1, 2, 3	4 L.9- 12.4.a-d; 6 RST.9- 12.1; 3; 4; 5; 7; 9; 10	S-ID.1 S-IC.6			Health & Safety	Questions
Participate in discussions with guest speakers from a variety of career fields, to include branches of the military, ROTC, CAP, FAA, etc.		TD 1, 6 TD-OPS 1, 2, 3 TD-SYS 1, 2, 3	SL.9- 12.1.a-d L.9- 12.4.a-d; 6	S-IC.6 S-MD.6 S-MD.7	B2, B3, B4	A2, A5, B2, B4	Community Work Habits	Class discussion Observation
Encourage participation in CSTO (SkillsUSA), including employability skills.	SkillsUSA EAP 1, 2, 3, 4	TD 1, 6 TD-OPS 1, 2, 3 TD-SYS 1, 2, 3	SL.9- 12.1.a-d L.9- 12.4.a-d; 6 WHST.9- 12.4; 5; 6; 8; 9	S-IC.6 S-MD.6 S-MD.7	B2, B3, B4	A2, A5, B2, B4	Community Work Habits	SkillsUSA

Instructional Resources

List the major instructional resources used for this course: (websites, textbooks, essential equipment, reference materials, supplies)

Aviation Fundamentals, Jeppesen Sanderson
 FAR/AIM
 E6B Flight Computer and Plotter
 Sectional chart and Alaska Supplement

The Institute for Workforce Education (IWE)

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Form #05-13-028

Alaska Department of Education and Early Development

DISTRICT NAME: Mat-Su Borough School District

http://www.lx.org/iwe/Resources/All_Aspects.doc

<http://www.nasa.gov>

<http://www.aviationnow.com>

<http://www.aviationweather.com>

<http://www.boeing.com>

<http://www.avweb.com>