

#### Fairbanks North Star Borough School District

# Career & Technical Education Curriculum



#### **Aviation Courses**

Adopted April 6, 2021

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#### Acknowledgements

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The Fairbanks North Star Borough School District is an equal employment and educational opportunity institution, as well as a tobacco and nicotine-free learning and work environment.

#### Acronyms

ACC Alaska Core Competencies

AKCIS Alaska Career Information System CTC Community and Technical College

CTE Career Technical Education

CTEPS Career and Technical Education Program of Study

CTSO Career Technical Student Organization FAA Federal Aviation Administration

FNSBSD Fairbanks North Star Borough School District

GPS Global Positioning System

OSHA Occupational Safety and Health Administration

PLCP Personal Learning and Career Plan

PLTW Project Lead the Way

RPC Recognized Post-secondary Credential

STEM Science, Technology, Engineering, and Math

TSA Technology Student Association
UAA University of Alaska - Anchorage
UAF University of Alaska - Fairbanks
USDOL United States Department of Labor

WS Writing Standards

VOR Very high frequency Omni-directional Range

#### **Explanation of Terms**

#### **General Terms and Definitions**

**Career Cluster:** A career cluster is a structure for organizing and delivering quality CTE programs around occupations and broad industries.

**Career Pathway:** A career pathway is a strand of a career cluster that centers on a common set of academic, technical, and workplace skills and knowledge. It is a sector from the broader career cluster.

**CTEPS:** CTEPS stands for "Career and Technical Education Program of Study" which is also called Program of Study or POS. It is a coherent and aligned sequence of educational elements that begins at secondary school and continues without duplication or remediation into postsecondary education/training, and that leads to an industry recognized credential or certificate, or an associate or baccalaureate degree. (See Program of Study)

**Program of Study (POS):** A program of study is designed to provide successful student transitions between secondary and postsecondary education. A program of study is a comprehensive, structured approach for delivering academic and career and technical education to prepare students for postsecondary education and career success. (See CTEPS)

**Sequence:** A sequence is a group of courses that a student may take within a cluster, usually in a progression of foundational skills to more focused and higher level skills.

#### **CTE Specific Terms**

Career and Technical Student Organization (CTSO): A CTSO is an organization for students enrolled in a CTE program that engages in CTE activities as an integral part of the instructional program. Alaska has six (6) recognized CTSOs: Business Professionals of America (BPA); Family, Career, and Community Leaders of America (FCCLA); Health Occupations Students of America (HOSA)- Future Health Professionals; DECA – an Association of Marketing Students; FFA – Agricultural Education; and SkillsUSA.

**Concentrator:** A secondary student who has earned two (2) courses in a single CTE pathway within those career clusters where 2 credit sequences are recognized by the State and its local eligible recipients, or where the student has documented proficiencies that are equivalent to this criteria.

**Concurrent Enrollment:** A written agreement between a secondary and a postsecondary program that allows a high school course taught by a high school teacher to qualify for postsecondary credit.

**Participant:** A secondary student who has earned credit in one (1) or more approved course(s) in any career and technical education (CTE) program area.

#### **Curriculum Terms**

**Alaska Content Standards:** Content standards are broad statements, adopted by the State Board of Education and Early Development, indicating what students should know and be able to do as a result of their public school experience.

Alaska Cultural Standards: The Alaska Cultural Standards for Students were developed by the Alaska Native Knowledge Network and adopted by the State Board of Education & Early Development in 1998. Cultural Standards are meant to enrich the Content Standards and provide guidelines for nurturing and building in students the rich and varied cultural traditions that continue to be practiced in communities throughout Alaska. The standards are broad statements of what students should know and be able to do as a result of their experience in a school that is aware of and sensitive to the surrounding physical and cultural environment.

Alaska Employability Standards: Alaska's Employability standards are to be used in conjunction with Alaska's academic content and performance standards to ensure Alaska's student have the skills and knowledge necessary to be good citizens, effective parents, productive workers, and most of all, life-long learners. Alaska's students are expected to learn how to learn and apply their skills and knowledge in a variety of settings to create a satisfying and productive life. These standards are designed to promote successful student transition from school to work.

**Alaska Performance Standards:** Performance standards are measureable statements of learning expectations, adopted by the State Board of Education and Early Development, indicating what students should know and be able to do as a result of their public school experience. Alaska has adopted Performance Standards in reading, writing, mathematics, and science.

**All Aspects of Industry:** All Aspects of Industry essentially provides a set of standards for all CTE courses. All Aspects of Industry defines nine aspects common to any business or enterprise: planning; management; finance; technical and production skills; principles of technology; labor issues; community issues; health, safety and environment; personal work habits.

**Personal Learning Plan:** A personal learning plan is developed by students – typically in collaboration with teachers, counselors, and parents – as a way to help them achieve short- and long-term goals, most commonly at the middle and high school levels. Students can chart a personal educational program that will allow them to achieve their educational and aspirational goals, while also fulfilling school requirements such as particular credit or course requirements for graduation. A personal learning plan also documents major learning accomplishments or milestones.

**Student Performance Standards**: Student performance standards are statements of the essential skills, knowledge, and tasks that FNSBSD students are expected to master in the course. These are developed at the district level.

# Science, Technology, Engineering, & Mathematics (STEM) Overview

The Science, Technology, Engineering and Mathematics (STEM) Cluster includes planning, managing and providing scientific research and professional and technical services (e.g., physical science, social science, engineering), including laboratory and testing services and research and development services.

The Fairbanks North Star Borough School District STEM Cluster courses may be sequenced into a variety of Programs of Study including, but not limited to:

- Aviation
- Engineering & Technology
- Science & Math
- Drafting and Design

Each school will develop Programs of Study based on availability of courses. Programs of Study are suggestions to help guide the development of individual Personal Learning Plans (PLP). Students may choose courses from multiple clusters as they design a PLP.

Many courses within this cluster are articulated for credit with University of Alaska Fairbanks/Community and Technical College through a dual credit agreement. This agreement allows students to earn postsecondary credit while taking a course from an approved high school instructor.

The Aviation curriculum is aligned to the following standards:

- Alaska Cultural Standards
- Alaska Employability Standards
- Alaska English/Language Arts Standards
- Alaska Math Standards
- Alaska Science Standards
- Federal Aviation Administration (FAA) Private Pilot Airplane: Airman Certification Standards

The complete text of these standards may be found in the appendix.

# **Career & Technical Education**

Science, Technology, Engineering, & Mathematics (STEM):

# Aviation Courses

## **Private Pilot Ground School 1A**

CO	URSE INFORMATION
Course Name:	Private Pilot Ground School 1A
Course Number:	CTEE309
Grade(s):	11 – 12
Length (# of semesters):	One semester
Credit:	0.5
Foundational Course:	This is a foundational CTE course (foundational courses
	are not technical)
Prerequisites:	Algebra I
Sequence or CTEPS:	STEM - Engineering
Date of District Course Revision:	Spring 2021
CAREER & TECHNIC	CAL STUDENT ORGANIZATION (CTSO)
CTSO Embedded in this Sequence:	SkillsUSA and/or Technology Student Association (TSA)
	OCCUPATIONAL STANDARDS
Source(s) of Technical Standards:	Federal Aviation Administration (FAA) Private Pilot –
	Airplane: Airman Certification Standards
Names/Numbers of Technical	FAA-S-ACS-6
Standards:	
REGIST	TRATION INFORMATION
Course Description:	This course will introduce occupations in professional
(Brief paragraph - as will be shown in	piloting, aviation infrastructure, and aviation maintenance.
the student course catalog)	Students will have the opportunity for field trips, career
	investigations, and FAA certification testing. (In order to have
	the FNSBSD instructor sign-off that a student is ready to test,
	the student must complete semesters 1 and 2. FNSBSD
	recognizes instruction for this license can happen in a variety
	of ways outside the district, often in shorter duration.)
Instructional Topic Headings:	Flight Fundamentals, Flight Operations, and Pilot Training:
(Separate each heading with a semi-	Aviation careers; Aircraft design and systems; Flight
colon.)	instruments; Aerodynamics; Flight safety; Airports and
DOCTO	airspace; ATC services
	ECONDARY CREDENTIAL  Student Dilat Contificate*
Recognized Postsecondary Credential	Student Pilot Certificate*  Airman Knowledge Test**
(RPC): (Replaces Technical Skills Assessment (TSA) -	Airman Knowledge Test**
not all TSAs will qualify as an RPC, and RPC	*Requires the completion of Semesters 1A & 1B
is not required for all courses)	**Requires the completion of Semesters 1A & 1B and the endorsement from the
	instructor that they are ready to test.
	STANDARDS
This course addresses (enter yes/no):	V.
Alaska English Language Arts	Yes
and Math Standards:	V
Alaska Cultural Standards:	Yes

All Aspects of Industry (AAI):	Yes		
Core Technical Standards:	Yes		
<b>Employability Standards:</b>	Yes		
EMPLOYABILITY STANDARDS			
<b>Employability Standards source:</b>	Alaska Employability Standards		
DUAL	CREDIT AGREEMENT		
CTSO participation is included:	Yes, SkillsUSA and/or Technology Student Association		
	(TSA)		
<b>Current Dual Credit Agreement:</b>	(If checked, complete the Dual Credit section below.)		
(Agreements should be reviewed and			
updated annually)			
<b>Date of Current Agreement:</b>	N/A		
<b>Postsecondary Institution Name:</b>	N/A		
<b>Postsecondary Course Name:</b>	N/A		
Postsecondary Course Number:	N/A		
<b>Postsecondary Course Credits:</b>	N/A		
	AUTHOR		
Course Developed By:	Dan Domke, Joni Simpson, and Travis Stagg		
Course Adapted From:	FAA Private Pilot Ground School		
<b>Date of Previous Course Revision:</b>	N/A		
COUL	RSE DELIVERY MODEL		
Is this course brokered through	No		
another institution or agency?			
(yes/no)			

	Standards Alignment						
Student Performance Standards (Instructional Topic Headings)	Specific Technical Skills Standards	Alaska English/ Language Arts Standards	Alaska Math Standards	Alaska Science Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	Assessment
Students will understand how specific careers addressed in this course fit within all aspects of the aviation industry.	PA.I.A.K1 PA.I.A.K2 PA.I.A.K3 PA.I.A.K4 PA.I.A.K5	Reading 1,2,4 Writing 2abde,4,10 Speaking/ Listening 1.a,b,c	S-ID-9	HS-PS2-5MS- ESS2-5	A1; A7 B4; E2; E4	A1-6 B2-5	Essential questions, workbooks, and written exams
Students will demonstrate an understanding of different aircraft and their flight systems.	PA.I.G.K1 including all sub elements	Reading 1-4,7,8,10 Writing 2 (a-f), 4-8 Speaking 1-6	F-BF	HS-PS2-3HS- PS2-4HS-PS3- 2MS-ESS2-5	A1; A7 B4; E2; E4	A2	Quizzes, tests, demonstration on simulators, and presentation
Students will demonstrate their knowledge of flight instruments and how they affect the flight of an aircraft.	PA.I.G.K1 including all sub elements	Reading 1-4,7,8,10 Writing 2 (a-f), 4-8 Speaking 1-6	A-CED 1,2 F-BF G-CO 1,2,4,5 S-ID-9 S-CP.2 S-CP.9	HS-PS2-6HS- PS1-4HS-PS1- 5HS-PS2-3HS- PS2-4HS-PS2- 5HS-PS3-2HS- PS3-4MS- ESS1-2 MS-ESS2-5	A1; A7 B4; E2; E4	A2	Quizzes, tests, demonstration on simulators, and presentation
Students will understand the process of becoming a licensed pilot.	PA.I.A.K1	Reading 1-4,7,8,10 Writing 2 (a-f)			A1; A7 B4; E2; E4	A3, 5, 6 B2-5	Quizzes and tests
Students will understand the aerodynamics of an aircraft and how that affects flight.	PA.IV.B.K1 PA.IV.B.K2 PA.IV.B.K3	Reading 1-4,7,8,10 Writing 2 (a-f), 4-8 Speaking 1-6	A-CED 1,2 F-BF G-CO 1,2,4,5 G-MG S-ID-9 S-CP.2 S-CP.9	HS-PS2-6HS- PS1-4 HS-PS1-7HS- PS2-3HS-PS2- 4HS-PS2-5HS- PS3-4MS- ESS1-2 MS-ESS2-5	A1; A7 B4; E2; E4	A2	Quizzes, tests, and presentation

Standards Alignment							
Student Performance Standards (Instructional Topic Headings)	Specific Technical Skills Standards	Alaska English/ Language Arts Standards		Alaska Science Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	Assessment
Students will demonstrate an understanding of all aspects of flight safety.	PA.I.H.K1 including all sub elements.	Reading 1-4,7,8,10 Writing 2 (a-f), 4-8 Speaking 1-6	F-BF G.CO 1,2,4,5 G-MG S-ID-9 S-CP.2	HS-PS2-6HS- PS1-4HS-PS1- 5HS-PS1-7HS- PS2-3HS-PS2- 4HS-PS2-5HS-	A1; A7 B4; E2; E4	A2, 6	Quizzes, tests, and presentation
	the standards addresses flight safety		S-CP.9	PS3-2HS-PS3-4 MS-ESS1-2 MS-ESS2-5			
Students will understand the legal definition and all the legal aspects of airports and airspace.	PA.I.E.K1 PA.I.E.K2 PA.II.B.K3 PA.III.B.K1 PA.III.B.K2 PA.III.B.K3 PA.III.B.K4	Reading 1-4,7,8,10 Writing 2 (a-f), 4-8	S-ID-9	HS-PS2-4MS- ESS2-5	A1; A7 B4; E2; E4	A2,6	Quizzes and tests
Students will demonstrate an understanding of air traffic control services.	PA.III.A.K1 PA.III.A.K2 PA.III.A.K3 PA.III.A.K4 PA.III.A.K5 PA.III.A.K6 PA.III.A.K7 PA.III.A.K8 PA.III.A.K8	Reading 1-4,7,8,10 Writing 2 (a-f), 4-8	G-MG S-ID-9 S-CP.2	HS-PS1-5HS- PS2-4HS-PS2- 5MS-ESS2-5	A1; A7 B4; E2; E4	A2,6	Quizzes and tests

INSTRUCTIONAL RESOURCES				
List the major instructional resources used for this	course:			
Websites:	https://www.faa.gov			
Textbooks:	Jeppeson's Private Pilot and Test Prep Online Course			
	Jeppesen Guided Flight Discovery: Private Pilot (2018)			
	(This course uses instructional materials approved or required by the associated industry			
	and/or certifying organizations. As those standards or assessments are updated, instructional			
	materials will update accordingly.)			
<b>Essential Equipment:</b>	Flight simulators and peripherals, simulator software			
Reference Materials:	https://www.faa.gov/regulations_policies/handbooks_manuals/aviation			
	https://www.faa.gov/training_testing/testing/acs/media/private_airplane_acs_change_1.pdf			
Supplies:				

## **Private Pilot Ground School 1B**

CO	URSE INFORMATION
Course Name:	Private Pilot Ground School 1B
Course Number:	CTEE310
Grade(s):	11 – 12
Length (# of semesters):	One semester
Credit:	0.5
Foundational Course:	This is a foundational CTE course (foundational courses
	are not technical)
Prerequisites:	Private Pilot Ground School 1A
Sequence or CTEPS:	STEM - Engineering
<b>Date of District Course Revision:</b>	Spring 2021
CAREER & TECHNIC	CAL STUDENT ORGANIZATION (CTSO)
CTSO Embedded in this Sequence:	SkillsUSA and/or Technology Student Association (TSA)
	OCCUPATIONAL STANDARDS
Source(s) of Technical Standards:	Federal Aviation Administration (FAA) Private Pilot –
	Airplane: Airman Certification Standards
Names/Numbers of Technical	FAA-S-ACS-6
Standards:	
REGIST	TRATION INFORMATION
<b>Course Description:</b>	This course is a continuation of Private Pilot Ground School
(Brief paragraph - as will be shown in	1A and will introduce occupations in professional piloting,
the student course catalog)	aviation infrastructure, and aviation maintenance. Students
	will have the opportunity for field trips, career investigations,
	and FAA certification testing. (In order to have the FNSBSD
	instructor sign-off that a student is ready to test, the student
	must complete semesters 1 and 2. FNSBSD recognizes
	instruction for this license can happen in a variety of ways
	outside the district, often in shorter duration.)
<b>Instructional Topic Headings:</b>	Aviation Weather, Aircraft Performance, and Navigation:
(Separate each heading with a semi-	weather theory and hazards; forecasting weather and services;
colon.)	weight and balance; performance chart interpretation; pilotage
	and dead reckoning; VOR navigation; and GPS
	ECONDARY CREDENTIAL
Recognized Postsecondary Credential	Student Pilot Certificate*
(RPC):	Airman Knowledge Test**
(Replaces Technical Skills Assessment (TSA) -	*Requires the completion of Semesters 1A & 1B
not all TSAs will qualify as an RPC, and RPC is not required for all courses)	**Requires the completion of Semesters 1A & 1B and the endorsement from the
and the same of the sources of	instructor that they are ready to test.
This course addresses (enter yes/ne)	STANDARDS
This course addresses (enter yes/no):	Yes
Alaska English Language Arts and Math Standards:	108
	Yes
Alaska Cultural Standards:	103

All Aspects of Industry (AAI):	Yes		
Core Technical Standards:	Yes		
<b>Employability Standards:</b>	Yes		
EMPLO	DYABILITY STANDARDS		
<b>Employability Standards source:</b>	Alaska Employability Standards		
DUAL	CREDIT AGREEMENT		
CTSO participation is included:	Yes, SkillsUSA and/or Technology Student Association		
	(TSA)		
<b>Current Dual Credit Agreement:</b>	(If checked, complete the Dual Credit section below.)		
(Agreements should be reviewed and			
updated annually)			
Date of Current Agreement:	N/A		
<b>Postsecondary Institution Name:</b>	N/A		
Postsecondary Course Name:	N/A		
<b>Postsecondary Course Number:</b>	N/A		
<b>Postsecondary Course Credits:</b>	N/A		
	AUTHOR		
Course Developed By:	Dan Domke, Joni Simpson, and Travis Stagg		
Course Adapted From:	FAA Private Pilot Ground School		
<b>Date of Previous Course Revision:</b>	N/A		
COURSE DELIVERY MODEL			
Is this course brokered through	No		
another institution or agency?			
(yes/no)			

	Standards Alignment						
Student Performance Standards (Instructional Topic Headings)	Specific Technical Skills Standards	Alaska English/		Alaska Science Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	Assessment
Students will understand weather theory and its hazards.	PA.I.C.K1 PA.I.C.K2 PA.I.C.K3 PA.I.C.K3a-i PA.I.C.K4 PA.I.C.R1 PA.I.C.R1 PA.I.C.R1a-c PA.I.C.R2a-c	Reading 1- 4,7,8,10 Writing 2 (a-f), 4-8 Speaking 1-6	S-ID.1 - 9 F-IF.9 F-BF.1	ESS2.D ESS2-5 ESS2-6 MS-ETS1-3	A5, B2	A1 & 2 B2 & 3	Quizzes, tests, demonstration on simulators, and presentation
Students will demonstrate an understanding of forecasting weather and weather services.	PA.I.C.K1 PA.I.C.K2 PA.I.C.K3 PA.I.C.K3a-i PA.I.C.K4 PA.I.C.R1 PA.I.C.R1 PA.I.C.R1a-c PA.I.C.R2a-c	Reading 1- 4,7,8,10 Writing 2 (a-f), 4-8 Speaking 1-6	S-ID.1 - 9 F-IF.7 F-BF.1	ESS2.D ESS2-5 ESS2-6 MS-ESS3-2	A5, B2	A1 & 2 B2 & 3	Quizzes, tests, demonstration on simulators, and presentation
Students will demonstrate they understand how weight and balance affects an aircraft.	PA.I.F.K2a-f	Reading 1- 4,7,8,10 Writing 2 (a-f), 4-8 Speaking 1-6	S-ID.1 - 9 F-IF.7 F-IF.9 F-BF.1 A-REI.7	MS-ETS1- 1MS-ETS1-3	A5, B2	A1 & 2 B2 & 3	Quizzes, tests, demonstration on simulators, and presentation
Students will demonstrate an understanding of performance chart interpretation.	PA.VI.A.K1 PA.VI.A.K2 PA.VI.A.K3 PA.VI.A.K4a-c PA.VI.A.K5a-d PA.VI.A.K6 PA.VI.A.K7	Reading 1- 4,7,8,10 Writing 2 (a-f), 4-8 Speaking 1-6	S-ID.1 - 9 F-IF.7 F-IF.9 F-BF.1 A-REI.7	ESS2.D MS-ETS1-3	A5, B2	A1 & 2 B2 & 3	Quizzes, tests, demonstration on simulators, and presentation
Students will demonstrate an understanding of navigation by reading a map and comparing it to terrain and landmarks (pilotage.)	PA.VI.A.K1 PA.VI.A.K2 PA.VI.A.K3 PA.VI.A.K4a-c PA.VI.A.K5a-d PA.VI.A.K6-K7	Reading 1- 4,7,8,10 Writing 2 (a-f), 4-8 Speaking 1-6	S-ID.1 - 9 F-IF.7 F-IF.9 F-BF.1 A-REI.7	ESS2-5 ESS2-6 MS-ETS1-3	A5, B2	A1 & 2 B2 & 3	Quizzes, tests, demonstration on simulators, and presentation

Standards Alignment							
Student Performance Standards (Instructional Topic Headings)	Specific Technical Skills Standards	Alaska English/ Language Arts Standards	Alaska Math Standards	Alaska Science Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	Assessment
Students will demonstrate an understanding of navigation by using ground speed, compass readings, clock, and initial position (dead reckoning.)	PA.VI.A.K1 PA.VI.A.K2 PA.VI.A.K3 PA.VI.A.K4a-c PA.VI.A.K5a-d PA.VI.A.K6 PA.VI.A.K7	Reading 1- 4,7,8,10 Writing 2 (a-f), 4-8 Speaking 1-6	S-ID.1 - 9 F-IF.7 F-IF.9 F-BF.1 A-REI.7	ESS2.D ESS2-5 ESS2-6 MS-ETS1-3	A5, B2	A1 & 2 B2 & 3	Quizzes, tests, demonstration on simulators, and presentation
Students will demonstrate an understanding of navigation through VOR.	PA.I.D.K1 PA.I.D.K2 PA.I.D.K3a-c PA.I.D.K4 PA.I.D.K5 PA.I.E.K1 PA.I.E.K2 PA.I.E.K3 PA.I.E.K4	Reading 1- 4,7,8,10 Writing 2 (a-f), 4-8 Speaking 1-6	S-ID.1 - 9 F-IF.7 F-IF.9 F-BF.1 A-REI.7	ESS2.D MS-ETS1-3	A5, B2	A1 & 2 B2 & 3	Quizzes, tests, demonstration on simulators, and presentation
Students will demonstrate and understanding of navigation through the use of GPS.	PA.VI.B.K1 PA.VI.B.K2 PA.VI.B.K3 PA.VI.B.K4	Reading 1- 4,7,8,10 Writing 2 (a-f), 4-8 Speaking 1-6	S-ID.1 - 9 F-IF.7 F-IF.9 F-BF.1 A-REI.7	ESS2-5 ESS2-6 MS-ETS1-3	A5, B2		Quizzes, tests, demonstration on simulators, and presentation

INSTRUCTIONAL RESOURCES						
List the major instructional resources used for this	course:					
Websites:	https://www.faa.gov					
Textbooks:	Jeppeson's Private Pilot and Test Prep Online Course					
	Jeppesen Guided Flight Discovery: Private Pilot (2018)					
	(This course uses instructional materials approved or required by the associated industry					
	and/or certifying organizations. As those standards or assessments are updated, instructional					
	materials will update accordingly.)					
Essential Equipment:	Flight simulators and peripherals, simulator software					
Reference Materials:	https://www.faa.gov/regulations_policies/handbooks_manuals/aviation					
	https://www.faa.gov/training_testing/testing/acs/media/private_airplane_acs_change_					
	<u>1.pdf</u>					
Supplies:						

