

# Articulation Agreement

2017-2018

## University Alaska Fairbanks

Interior Alaska Campus

4280 Geist Road

Fairbanks, Alaska 99709

## Galena City School District

PO Box 299

Galena, Alaska 99741

### Purpose:

In addition to the current Tech Prep Agreement between University of Alaska Fairbanks and Galena City School District, we have agreed to add the following course that is within UAF Aviation Program:

1. Galena City School District will follow a UAF Allied Health curriculum in coordination with the administration and faculty of the University of Alaska Fairbanks pertaining to the following courses on the course below.
2. Galena City School District will teach for the attached outcomes.
3. The attached syllabus will follow the learning outcomes of the university-approved course listed.

UAF Course Number	UAF Course Title	Number of UAF Credits	Galena City School District Course Title
AVTY 101	Flight School	2 credits	Flight School

1. The attached syllabus will be followed.
2. Galena City School District will provide necessary support for students to be successful in this course which may include computer support, reference books and academic assistance.
3. Interior Alaska Campus will process the registrations.
4. In order to receive concurrent credit, the student will register for the Tech Prep class during the semester in which the competencies will be completed.

## Approvals:

Arvid Weflen

Director of Aviation Programs

UAF Community and Technical  
College

University of Alaska Fairbanks

DocuSigned by:

*Arvid Weflen*

March 26, 2018

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Signature

Date

Bryan Uher

Interim Director

University of Alaska Fairbanks

Interior Alaska Campus

Fairbanks, Alaska

Chris Reitan

Superintendent

Galena City School District

Galena, Alaska

DocuSigned by:

*Bryan Uher*

March 28, 2018

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Signature

Date

DocuSigned by:

*Chris Reitan*

March 28, 2018

Signature

Date

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Mary Pete  
Dean-College of Rural and  
Community Development  
P.O. Box 6500  
University of Alaska Fairbanks  
Fairbanks, AK 99775-6500

Michele Stalder  
Dean-Community and Technical College  
604 Barnette Street  
University of Alaska Fairbanks  
Fairbanks AK 99701

DocuSigned by:  
*Mary Pete* March 28, 2018  
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DocuSigned by:  
*Michele Stalder* March 28, 2018  
8099F52F920443E...

Signature

Date

Signature

Date

Susan Henrichs, Provost  
P.O. Box 7580  
University of Alaska Fairbanks  
Fairbanks, AK 99775-7580

*Susan Henrichs* 5/7/13  
Signature Date

**AVTY F101 - Private Pilot Flight School**  
**Syllabus**  
**2 credit year-long course**  
**Galena Interior Learning Academy**  
**Instructor: Joshua D. Kaufield**

Term: Fall 2017 - Spring 2018

Course Title: Private Pilot Flight School

Dept. & Num.: AVTY F101

Credits: 2

Prerequisites: Students must demonstrate the ability to read, write, and understand the English language as per the student pilot eligibility requirements of Federal Aviation Regulation 61.83. Students under 16 years of age, admitted only with Instructor approval.

Dates: August 21, 2017 - May 17, 2018

Days & times: There are three separate class periods for students to attend ground school

A Day 3<sup>rd</sup> & 4<sup>th</sup> Period - 12:50PM-3:55PM (Mon-Fri. on alternating days)

B Day 3<sup>rd</sup> & 4<sup>th</sup> Period - 12:50PM-3:55PM (Mon-Fri. on alternating days)

Location: Galena Interior Learning Academy

Instructor: Joshua D. Kaufield CFII, AGI, and A&P

Position: Flight Instructor

Phone: (907) 656-2053, ext. 365

Email: [josh.kaufield@galenanet.com](mailto:josh.kaufield@galenanet.com)

Office hours: Monday-Friday 8:00am to 4:00pm

**Text:** Jeppesen Private Pilot Guided Discovery Part 61 Kit

**Supplemental Readings:** Handouts supplied by instructor

**Supplies:** flight computer (E6B), course plotter, aeronautical charts, Alaska supplement, Computer stations, Microsoft Flight Simulator, ASA Prepware, FAR/AIM, and Jeppesen Private Pilot Manual.

**Course Description:** This is an advanced course in aviation to prepare students for Private Pilot Certification with an airplane single-engine land rating. Students are expected to complete the knowledge, training and experience requirements of Federal Aviation Regulation 61.107(b) and 61.109(a). There are 4 basic stages of training outlined as follows:

- **Stage #1: Private Before Solo (PBS)** - During this stage, the student will develop consistently safe aeronautical decision making and proficiency in the maneuvers required by 61.87(d) to accurately operate a single-engine airplane within the local airport traffic pattern as the sole occupant of the airplane.
- **Stage #2: Private Local Proficiency (PLP)** - The student will be able to navigate safely to and from local practice areas and increase proficiency in the performance of airwork maneuvers and airplane procedures.
- **Stage #3: Private Cross-Country (PXC)** - The student will be able to navigate safely and efficiently to airports beyond fifty miles from the original point of departure during the day and at night. The student will complete the night flight and cross-country experience and training requirements of FAR61.107(b)(1) and FAR 61.109(a) for private pilot certification.
- **Stage #4: Private Test Preparation (PTP)** - The student will perform flight maneuvers consistently within the limitations defined by the FAA Private Pilot Practical Standards. The



student will also complete any remaining training and experience requirements for Private Pilot Certification as per FAR 61.107(b)(1) and FAR 61.109(a).

### **Skill expectations:**

Completion of AVTY F100 - Private Pilot Ground School (or equivalent) is required before enrollment in this course.

### **Course Description and Goals**

#### **Student Learning Outcomes:**

##### **Preflight & Postflight Operations**

- The student exhibits knowledge of the elements related to preflight inspection and inspects the airplane with reference to an appropriate checklist. (Private Pilot PTS Task IIA1)
- The student explains the required instruments and equipment for day/night VFR and the procedures for determining airworthiness of the airplane with inoperative instruments and equipment with and without an MEL. (Private Pilot PTS Task IB1)
- The student exhibits knowledge of the elements related to weather information by analyzing weather reports, charts, and forecasts from various sources and is able to make a competent "go/no-go" decision based on available weather information. (Private Pilot PTS Task IC)
- The student demonstrates use of the appropriate performance charts, tables, and data and describes the effects of atmospheric conditions on the airplane's performance. (Private Pilot Task IF3&4)
- The student determines the computed weight and center of gravity is within the airplane's operating limitations and if the weight and center of gravity will remain within limits during all phases of flight. (Private Pilot PTS Task IF2)
- The student performs a passenger briefing which includes the use of safety belts, shoulder harnesses, doors, and emergency procedures. (Private Pilot PTS Task IIB4)
- The student exhibits knowledge of the elements related to recommended engine starting procedures and utilizes an appropriate checklist for starting procedure (i.e. use of an external power source, hand propping safety, and starting under various atmospheric conditions). (Private Pilot PTS Task IIC1&3)
- The student exhibits knowledge of the elements related to safe taxi procedures. (Private Pilot PTS Task IID)
- The student exhibits knowledge of the elements related to the before takeoff check and accomplishes the before takeoff checklist and ensures the airplane is in safe operating condition. (Private Pilot PTS Task IIF)
- The student exhibits knowledge of the elements related to after landing, parking, shutdown and securing procedures. (Private Pilot PTS Task XIIA).
- The student properly interprets airport runway and taxiway signs, markings, and lighting. (Private Pilot PTS Task IIIC)
- The student is able to locate and explain the aircraft maintenance, inspection, and record keeping requirements. (Private Pilot PTS Task IB2)
- The student exhibits knowledge of the elements related to the operation of all systems on the airplane (i.e. flight control, fuel, electrical, vacuum/pressure, pitot-static, landing gear, and powerplant and related systems). (Private Pilot PTS Task IG)



### Air Work Maneuvers

- The student exhibits proficiency in the performance of the 4 fundamental flight maneuvers: climbs, turns, level flight, and descents.
- The student exhibits knowledge of and proficiency in the performance of maneuvering during slow flight. (Private Pilot PTS Task VIIIA)
- The student exhibits knowledge of and proficiency in the performance of steep turns. (Private Pilot PTS Task V)
- The student exhibits knowledge of and proficiency in the execution of and recovery from power-off stalls and power-on stalls. (Private Pilot PTS Task VIIIB and VIIIC)
- The student exhibits knowledge of and proficiency in the performance of Turns Around a Point (Private Pilot PTS Task VIA)
- The student exhibits knowledge of and proficiency in the performance of S-Turns (Private Pilot PTS Task VIB)
- The student exhibits knowledge of and proficiency in the performance of the Rectangular Course (Private Pilot PTS Task VIC)

### Basic Instrument Maneuvers

- The student exhibits knowledge of and proficiency in attitude instrument flying during straight-and-level flight, constant airspeed climbs, constant airspeed descents, turns to headings, and unusual flight attitudes. (Private Pilot PTS Task IXA, IXB, IXC, IXD and IXE)
- The student recognizes unusual flight attitudes solely by reference to instruments; recovers promptly to a stabilized level flight attitude using proper instrument cross-check and interpretation and smooth, coordinated control application in the correct sequence. (Private Pilot PTS Task IXE)
- The student exhibits knowledge of and proficiency in radio communications, navigation systems/facilities, and radar services available for use during flight solely by reference to instruments. (Private Pilot PTS Task IXF)

### Traffic Pattern Operations

- The student exhibits knowledge of and proficiency in the performance of a normal and crosswind takeoff, climb operations, and rejected takeoff procedures. (Private Pilot PTS Task IVA)
- The student exhibits knowledge of and proficiency in the performance of a short-field takeoff and maximum performance climb (Private Pilot Task IVE)
- The student exhibits knowledge of and proficiency in the performance of a soft-field takeoff and climb. (Private Pilot PTS Task IVC)
- The student exhibits knowledge of and proficiency in the performance of a normal and crosswind approach and landing. (Private Pilot PTS Task IVB)
- The student exhibits knowledge of and proficiency in the performance of a short-field approach and landing. (Private Pilot PTS Task IVF)
- The student exhibits knowledge of and proficiency in the performance of a soft-field approach and landing. (Private Pilot PTS Task IVD)
- The student exhibits knowledge of and proficiency in the performance of a forward slip to a landing. (Private Pilot PTS Task IVK)
- The student exhibits knowledge of and proficiency in the performance of a go-around/rejected landing. (Private Pilot PTS Task IVL)
- The student exhibits knowledge of and proficiency in the performance of radio communications and ATC light signals, acknowledges radio communications, and complies with instructions. (Private Pilot PTS Task IIIA)



- The student exhibits knowledge of and proficiency in the performance of traffic pattern operations. This shall include procedures at airports with and without operating control towers, prevention of runway incursions, collision avoidance, wake turbulence avoidance, and wind shear. (Private Pilot PTS Task IIIB)

#### Cross-Country Operations

- The student exhibits knowledge of the elements related to cross-country flight planning by presenting and explaining a pre-planned VFR cross-country flight, as previously assigned by the instructor. (Private Pilot PTS Task ID1)
- The student exhibits knowledge of the elements related to pilotage and dead reckoning. (Private Pilot PTS Task VIIA)
- The student exhibits knowledge of the elements related to navigation systems and radar services and demonstrates the ability to use an airborne electronic navigation system. (Private Pilot PTS Task VIIB)
- The student exhibits knowledge of the elements related to diversion from an intended course of flight. (Private Pilot PTS Task VIIC)
- The student exhibits knowledge of the elements related to lost procedures and uses navigation systems/facilities and/or contacts an ATC facility for assistance, as appropriate. (Private Pilot PTS Task VIID)
- The student identifies the elements of preflight planning and personal equipment essential for night flight and explains safety precautions and emergencies unique to night flying. (Private Pilot PTS Task XIA4&6)
- The student is able to obtain preflight weather briefing from a Flight Service Station and file, open, and close a VFR flight plan. (Private Pilot PTS Task ID9)

#### Emergency Operations

- The student exhibits knowledge of the elements related to emergency approach and landing procedures. (Private Pilot PTS Task XA)
- The student exhibits knowledge of the elements related to system and equipment malfunctions appropriate to the airplane and takes appropriate action for simulated emergencies including: partial or complete power loss, engine roughness or overheat, carburetor icing, loss of oil pressure, fuel starvation, electrical malfunction, vacuum/pressure and associated flight instrument malfunction, pitot/static system blockage, landing gear or flap malfunction, inoperative trim, inadvertent door or window opening, structural icing, engine fire, and cabin fire. (Private Pilot PTS Task XB)
- The student exhibits knowledge of the elements related to emergency equipment and survival gear appropriate to the airplane and environment encountered during flight and identifies appropriate equipment that should be aboard the airplane. (Private Pilot PTS Task XC)

#### Instructional methods:

The majority of skills during this course will be communicated to students through demonstration performance training concept. When introducing a skill, the instructor will demonstrate and explain the skill he desires the student to learn. The instructor will repeat the demonstration while allowing the student an opportunity to explain how to complete the maneuver/procedure. The student will then attempt to do the maneuver with verbal assistance from the instructor. There will also be 30 minutes of direct instruction/review at the beginning and end of each flight.

### **Grading System:**

The final grade will be based on the level of proficiency attained by the student on each Student Learning Outcome at the end of the course. Proficiency will be scored as follows:

"A": Mastery - The student is able to perform the maneuver safely and within Private Pilot Practical Test Standards without any assistance or coaching from the instructor.

"B": Advanced Proficiency - Though occasional coaching is required, the student is beginning to perform the maneuver/procedure safely within or very close to Private Pilot Practical Test Standards.

"C": Basic Proficiency - The student shows a good understanding of how to perform the maneuver/procedure and the common errors associated with the maneuver/procedure. The student's ability to perform the maneuver/procedure safely is increasing, yet a significant amount of coaching is necessary for the student to consistently perform the maneuver within Private Pilot Practical Test Standards.

"D": Limited Ability - The student shows a basic knowledge and understanding of how to perform the maneuver/procedure. A significant amount of coaching and assistance from the instructor is required for the student to accurately and safely perform the maneuver in the airplane.

### **Evaluation:**

Students will be evaluated by their participation, professionalism in their approach to learning. Students will be also evaluated based on their proficiency of each student learning outcome (identified above).

### **Grading Scale:**

A=100-90%

B=89-80%

C=79-70%

D=69-60%

F=59-0%

### **Meeting Time:**

Group #1: A Day 3<sup>rd</sup> & 4<sup>th</sup> Period - 12:50PM-3:55PM (Mon-Fri. on alternating days)

Group #2: B Day 3<sup>rd</sup> & 4<sup>th</sup> Period - 12:50PM-3:55PM (Mon-Fri. on alternating days)

### **Course Policies:**

- Students will conduct themselves ethically, responsibly, and professionally, respecting the rights of others to learn in a least restrictive environment.
- Attendance is mandatory.
- Students are expected to adhere to all policies established for students in the Aviation Technology Program at Galena Interior Learning Academy (including the GILA student handbook and the Flight School Compact)



**Support Services:**

Galena Interior Learning Academy (GILA)

PO Box 359 Galena, AK 99741

907-656-2053

[www.galenaalaska.org](http://www.galenaalaska.org)

GILA Aviation Technology offers the following learning supports:

After school tutoring and supplementary instruction Monday-Thursday 3:55-4:50pm

Saturday study halls 8:00am-12:00pm

Career counseling

**Disability Services:**

The Office of Disability Services implements the Americans with Disabilities Act (ADA) and ensures that GILA students have equal access to the campus and course materials. The instructor will work with the Office of Disabilities to provide reasonable accommodations to students with disabilities.