<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Offered As Demand Warrants</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Lecture + Lab + Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVTY F100</td>
<td>Private Pilot Ground School</td>
<td>4</td>
<td></td>
<td>Study of aircraft and engine operation and limitations, aircraft flight instruments, navigation, navigation computers, national weather information and dissemination services. Federal aviation regulations, flight information publications, radio communications and navigation. Preparation for FAA private pilot-airplane written exam.</td>
<td></td>
<td>4 + 0 + 0</td>
</tr>
<tr>
<td>AVTY F101</td>
<td>Private Pilot Flight Training</td>
<td>2</td>
<td></td>
<td>Flight instruction is arranged by student through approved pilot school or independent flight instructor. Training will meet federal aviation regulations. Course completion requires awarding of private pilot certificate.</td>
<td>Prerequisites: Department approval required.</td>
<td>2 + 0 + 0</td>
</tr>
<tr>
<td>AVTY F102</td>
<td>Commercial Ground Instruction</td>
<td>3</td>
<td></td>
<td>Advanced study of aircraft performance, airplane systems (including complex single engine, multi-engine and turboprop aircraft), navigation, regulations and meteorology. Employment considerations for commercial pilots surveyed. Preparation for the FAA commercial pilot-airplane written exam.</td>
<td></td>
<td>3 + 0 + 0</td>
</tr>
<tr>
<td>AVTY F103</td>
<td>Commercial Flight Training</td>
<td>2</td>
<td></td>
<td>Flight instruction is arranged by student through approved pilot school or independent flight instructor. Training will meet federal aviation regulations. Course completion requires awarding of commercial pilot certificate.</td>
<td>Prerequisites: Private Pilot certificate, AVTY F102 or concurrent enrollment, or passing score on FAA Commercial Pilot written exam, department approval required.</td>
<td>2 + 0 + 0</td>
</tr>
<tr>
<td>AVTY F105</td>
<td>Seaplane Flight Training</td>
<td>1</td>
<td></td>
<td>Flight instruction is arranged by student through approved pilot school or independent flight instructor. Training will meet federal aviation regulations. Course completion requires awarding of single-engine sea rating.</td>
<td>Prerequisites: Private pilot certificate or higher, department approval required.</td>
<td>1 + 0 + 0</td>
</tr>
<tr>
<td>AVTY F107</td>
<td>Multi-Engine Flight Training</td>
<td>1</td>
<td></td>
<td>Flight instruction is arranged by student through approved pilot school or independent flight instructor. Training will meet federal aviation regulations. Course completion requires awarding of multi-engine rating.</td>
<td>Prerequisites: Private pilot certificate or higher, department approval required.</td>
<td>1 + 0 + 0</td>
</tr>
<tr>
<td>AVTY F108</td>
<td>Introduction to Skis</td>
<td>1</td>
<td></td>
<td>Pilot instruction with a certified flight instructor or flight school in techniques of ski-plane operation and cold weather maintenance. The student is responsible for making arrangements for an appropriate aircraft, instructor and financing.</td>
<td>Prerequisites: Private pilot certificate.</td>
<td>1 + 0 + 0</td>
</tr>
<tr>
<td>AVTY F109</td>
<td>Glider Flight Training</td>
<td>1</td>
<td></td>
<td>Flight instruction is arranged by student through approved pilot school or independent flight instructor. Training will meet federal aviation regulations. Course completion requires awarding of glider and private or commercial pilot certificate with a glider category rating.</td>
<td>Prerequisites: Department approval.</td>
<td>1 + 0 + 0</td>
</tr>
<tr>
<td>AVTY F111</td>
<td>Fundamentals of Aviation</td>
<td>3</td>
<td></td>
<td>Basic concepts associated with the aircraft and its environment. Aircraft and its components, including basic systems, Federal Aviation Administration regulations, airports and airspace utilization, aeronautical charts, navigation, weather theory, medical and emergency factors.</td>
<td></td>
<td>3 + 0 + 0</td>
</tr>
<tr>
<td>AVTY F116</td>
<td>Aviation History</td>
<td>3</td>
<td></td>
<td>Aviation from its early days to the present. People, places and machines contributing to the development of Alaskan aviation.</td>
<td></td>
<td>3 + 0 + 0</td>
</tr>
<tr>
<td>AVTY F121</td>
<td>Introduction to Aviation Safety</td>
<td>2</td>
<td></td>
<td>An introduction to aviation safety designed to develop a positive attitude toward safety, refresh aeronautical knowledge and improve aeronautical skills. Proof required first day of class.</td>
<td>Prerequisites: Pilot’s Certificate or enrollment in Aviation program.</td>
<td>2 + 0 + 0</td>
</tr>
<tr>
<td>AVTY F155</td>
<td>Preventive Maintenance</td>
<td>1-3</td>
<td></td>
<td>Mechanics of the airplane, its powerplant and systems to enable the student to evaluate malfunctions and make maintenance decisions. Designed for the pilot-owner. Proof required first day of class.</td>
<td>Prerequisites: Pilot’s Certificate or enrollment in Aviation program.</td>
<td>1-3 + 0 + 0</td>
</tr>
</tbody>
</table>
AVTY F200  Instrument Ground School
4 Credits
Offered As Demand Warrants
Instrument flight operations in detail, altitude instrument flying, air traffic
control and navigation facilities, pilot responsibilities. IFR enroute charts,
instrument approach procedures. Federal Aviation Regulations, flight
planning, human factors and meteorology. Includes optional visits to
FAA, RAPCO and ARTCC facilities. Proof required first day of class.
Prerequisites: Pilot's Certificate or enrollment in Aviation program.
Lecture + Lab + Other: 3 + 3 + 0

AVTY F201  Instrument Pilot Training
2 Credits
Offered As Demand Warrants
Flight instruction is arranged by student through approved pilot school
or independent flight instructor. Cost of flight instruction varies with
location of instruction. Training will be in accordance with current Federal
Aviation Regulations. Course completion requires awarding of instrument
rating.
Prerequisites: Private or Commercial Pilot Certificate or AVTY F200 or
concurrent enrollment or passing score on FAA Private or Commercial
Pilot written exam, or permission of instructor; department approval.
Lecture + Lab + Other: 2 + 0 + 0

AVTY F202  Flight Instructor Ground School
3 Credits
Offered As Demand Warrants
Preparation for the FAA certified flight instructor or advanced ground
instructor written exam.
Prerequisites: Commercial pilot certificate or permission of instructor.
Lecture + Lab + Other: 3 + 0 + 0

AVTY F203  Flight Instructor Flight Training
2 Credits
Offered As Demand Warrants
Flight instruction is arranged by student through approved pilot school
or independent flight instructor. Course completion requires awarding of certified flight
instructor certificate.
Prerequisites: Commercial pilot certificate with instrument rating;
AVTY F202; or concurrent enrollment; or passing score on FAA flight
instructor written exams; department approval.
Lecture + Lab + Other: 2 + 0 + 0

AVTY F205  Instrument Instructor Flying
3 Credits
Offered As Demand Warrants
Preparation for certification as an instrument flight instructor.
Prerequisites: Commercial flight instructor certificate and department
approval.
Lecture + Lab + Other: 3 + 0 + 0

AVTY F206  ATP Ground Instruction
4 Credits
Offered As Demand Warrants
Preparation for the FAA airline transport pilot written exam.
Prerequisites: Compliance with FAR 61.151 and 61.155 or department
permission.
Lecture + Lab + Other: 4 + 0 + 0

AVTY F207  ATP Flying
2 Credits
Offered As Demand Warrants
Qualification for single- or multi-engine FAA airline transport pilot
certificate.
Prerequisites: Commercial pilot certificate, 1500 hours of flight time as
pilot or equivalent as described in FAR 61.155; AVTY F206 or passing
score on FAA airline transport pilot written exam; current FAA first class
medical certificate.
Lecture + Lab + Other: 2 + 0 + 0

AVTY F211  Instrument Flying
3 Credits
Offered As Demand Warrants
Qualification for single- or multi-engine FAA airline transport pilot
certificate.
Prerequisites: Commercial pilot certificate, 1500 hours of flight time as
pilot or equivalent as described in FAR 61.155; AVTY F206 or passing
score on FAA airline transport pilot written exam; current FAA first class
medical certificate.
Lecture + Lab + Other: 3 + 0 + 0

AVTY F220  Basic Flight Physiology
3 Credits
Offered As Demand Warrants
Understanding the physiology of flight and using this knowledge to
explain why certain phenomena occur to the mind and body during flight.
Proof required first day of class.
Prerequisites: Pilot's Certificate or enrollment in Aviation program.
Lecture + Lab + Other: 3 + 0 + 0

AVTY F226  Flight Engineer Ground School
4 Credits
Offered As Demand Warrants
A comprehensive examination of the major systems of one of the
following aircraft: turbojet (B-727, DC-8, B-707); turboprop (L-382, L-188);
or reciprocating (DC-6). Preparation for the FAA flight engineer written
exam.
Prerequisites: FAA commercial pilot license and instrument rating or
equivalent; department approval.
Lecture + Lab + Other: 4 + 0 + 0

AVTY F231  Arctic Survival (a)
3 Credits
Offered As Demand Warrants
Use of principles, procedures, techniques and equipment to survive
extreme Arctic conditions and assist in safe recovery. Lab required.
Cross-listed with EMS F257.
Lecture + Lab + Other: 3 + 0 + 0

AVTY F232  Aviation Astronomy and Navigation
3 Credits
Offered As Demand Warrants
Air navigation and astronomy, including charts, equipment, star and
constellation identification, and calculations.
Lecture + Lab + Other: 3 + 0 + 0

AVTY F235  Elements of Weather (a)
3 Credits
Offered As Demand Warrants
Weather as it affects aircraft operators with an emphasis on interior
Alaska.
Lecture + Lab + Other: 3 + 0 + 0

AVTY F239  Aircraft Dispatcher
4 Credits
Offered As Demand Warrants
Coordinating functions involving the aircraft and other departments of
an airline business. Those wanting to be eligible for aircraft dispatcher
certificate must be 23 years of age.
Lecture + Lab + Other: 4 + 0 + 0
AVTY F402  Aircraft Management
3 Credits
Offered As Demand Warrants
Securing, dispatching and monitoring aircraft operations. Safety, security, community relations, cost-effective scheduling and personnel management for mission scheduling.
\textbf{Lecture + Lab + Other: }3 + 0 + 0

AVTY F405  Advanced Aircraft Operations
3 Credits
Offered As Demand Warrants
Techniques and requirements associated with the operation of turbine-powered aircraft, remotely piloted aircraft, helicopters and STOL aircraft for pilots and air workers; safety; systems; aerodynamics; operating characteristics.
\textbf{Prerequisites: }AVTY F100 or AVTY F111 or AVTY F301 or permission of instructor.
\textbf{Lecture + Lab + Other: }3 + 0 + 0

AVTY F410  Techniques of Bush Flying (a)
2 Credits
Offered As Demand Warrants
Flight training emphasizing emergency procedures in remote locations, off-airport operations, critical flight attitudes, low-level flight, terrain flying, special maneuvers and unique soft and short field takeoffs and landings.
\textbf{Prerequisites: }AVTY F231; AVTY F235; AVTY F301; commercial rating; 20 hours taildragger time.
\textbf{Lecture + Lab + Other: }1 + 2 + 0