Commercial Pilot

PLAR Candidate Guide

Prior Learning Assessment and Recognition (PLAR)

SASKATCHEWAN POLYTECHNIC

Tomorrow in the making.

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The Commercial Pilot program is committed to assessing and awarding credit for students' existing knowledge and skills that closely match the learning outcomes of one or more of our courses. Fair, valid, and flexible assessment methods can be applied to award credit for prior learning acquired through post-secondary education, workplace training, and informal learning.

Developed by program	April 2007
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Prior learning credit options at Saskatchewan Polytechnic (Sask Polytech)

There are **three ways** to get credit for what you already know. You can combine them for credit in the same program, but not for the same course.

1. **Transfer credit** to receive credit for courses or certified training taken from another college or university, or from a recognized training organization. See our Transfer Credit webpage for more information.

   ***Examples**—these are a few of the many possible examples:*

   If you took a university arts and sciences course (e.g., communications, math, science, etc.), you may get transfer credit for a similar course at Sask Polytech.

   If you are a Canadian Armed Forces (CAF) member or veteran, your CAF training may be transferrable for credit in a Sask Polytech program. See our Canadian Armed Forces Credit webpage for more information.

2. **Equivalency credit** for one or more Sask Polytech courses you took before. You may have taken it from one of our campuses, at a regional college, or for dual credit in high school. See our Equivalency and Dual Credit webpage for more information.

   ***Examples**—these are a few of the many possible examples:*

   If you took communications course in Sask Polytech's Youth Care Worker program, it may be equivalent to a communications course in our Office Administration program.

   If you took our Sask Polytech's drafting course for dual credit while in high school, you may get credit for it in our CAD/CAM Engineering Technology program.

3. **PLAR credit** for proving what you know that matches one or more of our courses, no matter where or how you learned it (school, on the job, or on your own). First apply for all possible transfer and/or equivalency credit because PLAR is more work and cost. See our PLAR webpage for more information.

   ***Examples**—these are a few of the many possible examples:*

   If you learned computer skills at work, you may be approved for a PLAR assessment to prove that you have met the learning outcomes for one or more computer skills courses in your Sask Polytech program.

   If you are employed in an occupation related to your Sask Polytech program, you may be approved for a PLAR assessment to prove that you have met the learning outcomes for a work experience, clinical, or practicum course in your program.

Introduction to PLAR

Before reading this guide, review general information about PLAR at Sask Polytech, including steps in the PLAR process and PLAR FAQs. Both general information and specific information for this program will help you successfully navigate the PLAR process.

It is your responsibility to be fully informed **before** you contact a program's designated PLAR contact person. Use the self-rating checklist below to check whether you understand the PLAR basics before you review details for this program. This is an example of self-rating checklists found in this guide to assess your level of knowledge for courses in this program.

Self-rate your general knowledge of PLAR at Sask Polytech

Use this checklist to rate your knowledge for each of the following learning outcomes

General PLAR Knowledge **Competent:** I know this well enough to explain it to someone else. **Learning:** I am somewhat familiar with this but need more review. **None:** I have no knowledge related to this outcome.	**Competent**	**Learning**	**None**
1. Identify the common steps involved in a PLAR challenge			
2. Describe the kinds of learning that can be assessed by PLAR			
3. Describe methods that are used to assess learning for PLAR			
4. Discuss the differences between PLAR and transfer credit			
5. Identify potential benefits of doing a PLAR challenge			
6. Identify potential risks of doing a PLAR challenge			
7. Describe how to request disability accommodations for assessment			
8. Identify strategies to improve success for PLAR challenges			
9. Identify who should consider PLAR			
10. Discuss who should be cautious about PLAR and why			
11. Describe common eligibility criteria for PLAR			
12. Explain how PLAR fees are determined			
13. Discuss factors that affect the time required for PLAR			
14. Identify sources to contact for more information about PLAR			

If you rated yourself as "learning" or "none" for any of the above learning outcomes, review general information about PLAR at Sask Polytech to fill any gaps.

What is in this guide?

Specific PLAR information for the Commercial Pilot program

This section contains specific PLAR eligibility criteria, directions, and contact information for the Commercial Pilot program.

Tools for choosing courses to challenge with PLAR

This section contains self-rating checklists, assessment methods, and recommended resources (if any) for each course in this program that is PLAR-ready. This section will help you identify courses to consider challenging for PLAR credit.

Specific PLAR information for this program

Courses available for PLAR in this program

Commercial Pilot Diploma Program Profile			
COURSE CODE	**COURSE NAME**	**PLAR through documentation & interview**	**PLAR through academic assessment**
AVIA 180	Theory of Flight	✓	
AVIA 181	Navigation	✓	
AVIA 182	Meteorology 1	✓	
AVIA 186	Meteorology 2	✓	
AVIA 192	Advanced Aircraft Systems	✓	
AVIA 193	Flight Operations 2	✓	
AVIA 280	Canadian Aviation Regulations 2	✓	
ENGN 180	Aircraft Engines	✓	
HUMR 187	Human Factors and Crew Resource Management	✓	
INST 185	Aircraft Instruments	✓	
INST 186	Instrument Flying	✓	
AVIA 183	Flight Operations 1		✓
AVIA 184	Canadian Aviation Regulations 1		✓
AVIA 191*	Cultural Awareness		✓
BUS 183**	Aviation Business		✓
COMM 393*	Communications 1		✓
ELTR 183	Aircraft Pilot Electronics		✓
MATH 389*	Mathematics		✓
PHYS 185*	Physics		✓

Notes:

* AVIA 191, COMM 393, MATH 389, and PHYS 185 are delivered by the Department of Arts and Sciences. The Commercial Pilot PLAR contact person will coordinate PLAR assessment for these courses.

** BUS 183 is delivered by the Business Program. The Commercial Pilot PLAR contact person will coordinate PLAR assessment for this course.

Dates when PLAR assessment is available for this program

PLAR applications for the Commercial Pilot program are open from September 1st to March 31st each year. The best time to apply is at the start of a semester in September or January. **All PLAR assessment for this program must be completed by June 15 of each year**.

PLAR challenge options and eligibility criteria

Option A: Individual course challenge

Students who are admitted to the full-time, on-campus program should consult with their Program Head if they wish to challenge PLAR credit for one or more courses. Successful PLAR for most Commercial Pilot courses requires work-based training and experience as a licensed commercial pilot. However, some full time program students may be prepared to challenge less specialized courses such as the following:

- AVIA 191—Cultural Awareness
- COMM 393—Communications 1
- MATH 389—Mathematics
- PHYS 185—Physics
- BUS 183—Aviation Business

Option B: Full-program challenge

All of the following criteria must be met to be eligible for full program PLAR:

- You currently hold, or recently (within 5 years) held, a Canadian CPL and Group 1 Instrument Rating, or ATPL;
- You are currently or recently employed as a commercial pilot;
- You have a minimum of 1000 hours of flying experience; and
- You apply and meet admission requirements for this program. See the Admissions section on the program's webpage for details.

Fees for PLAR challenges

Fees for PLAR challenges are set to cover our costs for consultation, assessment, and related administrative tasks. PLAR fees are non-refundable and non-transferrable.

As of July 1, 2019, the PLAR fee is 75% of regular tuition. Refer to the **Tuition** column for the Commercial Pilot program on the Saskatoon Campus fee schedule. All other fees listed (technology, Student's Association, books, etc.) do **not** apply for PLAR. Add tuition-only fees for years 1 and 2. Multiply the sum by 0.75. The result is the full diploma program PLAR fee. Consult with the PLAR contact person to confirm the fee.

Directions for full program PLAR consultation and registration

For full program PLAR, travel to Saskatoon is typically required to review documentation and conduct assessment. We will do our best to keep travel to a minimum.

1. **Review:** Thoroughly review the PLAR process and FAQs and this guide for the Commercial Pilot program.

2. **Self-rate**: Complete the self-rating checklists for Commercial Pilot courses to estimate your level of competence for the learning outcomes of each course.

3. **Print, scan,** and **save**: the completed self-rating checklists for each course. Email these to the PLAR contact person to review during your initial consultation.

4. **Contact**: Call or email the PLAR contact person for an initial consultation to ask questions, decide whether to apply for PLAR, and clarify directions for next steps.

5. **Apply to the program**. See directions for submitting an application for admission.

6. **Register for PLAR**. Once program admission is confirmed, fill in your personal information and sign the PLAR Application Form. Mail to the PLAR contact person with a cheque payable to Saskatchewan Polytechnic. Payment is not accepted by credit card over the phone.

7. **Prepare required documentation**: The PLAR contact person will advise what documentation to provide for a PLAR assessment meeting. The following items are typically required:

    - ❑ Your aviation license and ratings, which must include CPL and Group 1 Instrument Rating or ATPL;
    - ❑ Your current or most recent personal pilot's logbook;
    - ❑ A current resume with dates and employers/organizations listed for paid or volunteer work related to this program, including any self-employment or business management experience;
    - ❑ Documentation to verify employment as a commercial pilot. Discuss the following verification options with the program head at your initial consultation:
        - Employment verification letter(s) provided by your employer(s) for a total of at least 2 years of commercial pilot work experience (see Appendix A),
        - Income tax T-4s or records of employment issued by your employer(s) for a total of at least 2 years of commercial pilot work experience,
        - Or alternative documentation as approved by the PLAR contact person;
    - ❑ Transcripts, certificates or other documentation of education, training, workshops, etc. related to this program, including company or recurrent aircraft type training. Discuss your education and training with the Program Head. Course outlines, syllabi, or workshop descriptions may be required.

PLAR contact information for this program

Please do not contact the Commercial Pilot program regarding PLAR until you have…

- thoroughly reviewed (a) general PLAR information online and (b) program-specific PLAR information in this guide and
- self-rated your competence level for the learning outcomes of each course (see the Section 2 of this guide).

If PLAR appears to be a reasonable option for you, please contact the person below:

Randall Muzyka, Program Head
Commercial Pilot Program
Saskatchewan Polytechnic, Saskatoon Campus
Phone: 306-933-7290
Email: randall.muzyka@saskpolytech.ca

PLAR assessment

The PLAR contact person or designated assessor will provide detailed assessment directions and answer your questions as needed to clarify.

Assessment for the following courses is based on required documentation and interview:

- AVIA 180 ..... Theory of Flight
- AVIA 181 ..... Navigation
- AVIA 182 ..... Meteorology 1
- ENGN 180 ..... Aircraft Engines
- INST 185 ..... Aircraft Instruments
- AVIA 186 ..... Meteorology 2
- AVIA 192 ..... Advanced Aircraft Systems
- AVIA 193 ..... Flight Operations 2
- AVIA 280 ..... Canadian Aviation Regulations (CARs 2)
- INST 186 ..... Instrument Flying
- HUMR 187 ..... Human Factors and Crew Resource Management/CRM

Additional evidence is required for the following courses:

- AVIA 183 ..... Flight Operations 1
- AVIA 184 ..... Canadian Aviation Regulations (CARs 1)
- AVIA 191 ..... Cultural Awareness
- COMM 393 .... Communications 1
- ELTR 183 ..... Aircraft Pilot Electronics
- MATH 389 ..... Mathematics
- PHYS 185..... Physics
- BUS 183 ..... Aviation Business

Additional evidence required varies for each course. See assessment methods described on each course outline. Evidence may include one or more of the following:

- Completed self-rating checklists for each course
- Challenge assignments
- Challenge exams
- Interviews
- Work samples

- Excerpts from your pilot personal logbook
- Transcript(s) of related post secondary education and/or documentation of workshops, seminars, etc.

A follow up interview may be required to clarify submitted evidence.

Time required to complete full program PLAR

Since each candidate has different experiences, the amount of time it takes to prepare and assess evidence will vary. The time from application to completion for full program PLAR is typically 3-6 months. **All assessment must be completed by June 15**, so apply for full program PLAR in September or January to allow enough time.

Course outlines for this program

This section contains course outlines with descriptions, learning outcomes, and PLAR assessment information for each course in this program. Learning outcomes listed for each course describe the knowledge and skills that are assessed for PLAR credit.

Use the checklist provided for each course to self-rate your competence level for each learning outcome. Your self-ratings will help you estimate your readiness for PLAR. Course outlines may also describe assessment methods for each course and suggest resources to prepare for PLAR assessment.

Steps to complete a self-rating checklist

1. Familiarize your self with the three levels of competence listed below:

Competent:	I can work independently without supervision to apply the learning outcome.
Learning:	I am still learning this and need some direction or supervision to do it well.
None:	I have no knowledge or experience related to this outcome.

2. Review the learning outcomes listed on course outlines in this guide for each course.

3. Rate your level of competence for each learning outcome by placing a checkmark in the appropriate rating column.

4. Email completed checklists to the PLAR contact person to be reviewed for an initial consultation.

AVIA 180 – Theory of Flight

You will study topics relevant to flight theory and aircraft design including flight control systems, stability, air flow characteristics, and forces acting on an aircraft.

Credit unit(s): 2.0
Pre and Co Requisites: none
Equivalent course(s): none

AVIA 180 – Theory of Flight **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Examine forces acting on an aircraft.			
2. Examine stall theory.			
3. Examine air flow characteristics and wing design.			
4. Examine aircraft design and stability.			
5. Examine aircraft flight controls.			
6. Examine propeller theory.			

PLAR Assessment

If you qualify for PLAR, assessment for this course will be based on review of required documentation and an interview.

AVIA 181 – Navigation

You will study Visual Flight Rules (VFR) navigation including flight planning procedures for all phases of flight. You will use all relevant information to prepare navigation logs, flight plans, and weight and balance. Your studies will include the use of various radio aids to navigation.

Credit unit(s): 3.0
Prerequisites: none
Equivalent course(s): none

AVIA 181 – Navigation **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Discuss various navigation terms and definitions.			
2. Examine various maps and charts used for VFR navigation.			
3. Use the Pilot Operating Handbook (POH).			
4. Choose media to locate relevant weather information.			
5. Examine departure, enroute and arrival procedures.			
6. Discuss appropriate emergency procedures.			
7. Prepare flight navigation logs.			
8. Prepare International Civil Aviation Organization (ICAO) Flight Plan forms.			
9. Use various radio aids for navigation.			

PLAR assessment

If you qualify for PLAR, assessment for this course will be based on review of required documentation and an interview.

AVIA 182 – Meteorology 1

You will study properties of the atmosphere and the conditions that produce and modify weather. Through practical exercises, you will interpret forecast weather conditions and its effects on the pilot and the aircraft.

Credit unit(s): 3.0
Prerequisites: none
Equivalent course(s): none

AVIA 182 – Meteorology 1 **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify the structure and the properties of the atmosphere.			
2. Explain the atmospheric effects of moisture, heating and cooling.			
3. Discuss cloud formations.			
4. Analyze pressure systems and wind.			
5. Analyze existing and forecast weather conditions.			
6. Evaluate the significance of weather conditions to specific commercial flights.			

PLAR assessment

If you qualify for PLAR, assessment for this course will be based on review of required documentation and an interview.

AVIA 186 – Meteorology 2

You will study properties of the atmosphere and the conditions that produce and modify weather. Through practical exercises, you will interpret forecast weather conditions and its effects on the pilot and the aircraft.

Credit unit(s): 3.0
Prerequisites: none
Equivalent course(s): none

AVIA 186 – Meteorology 2 **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Examine observed and forecast weather conditions.			
2. Examine upper level weather charts.			
3. Assess the significance of weather conditions to specific Instrument Flight Rules (IFR) operations.			
4. Discuss significant weather in Canada.			
5. Examine special weather phenomena.			
6. Discuss regional weather characteristics in Canada.			
7. Examine aircraft icing phenomena.			

PLAR assessment

If you qualify for PLAR, assessment for this course will be based on review of required documentation and an interview.

AVIA 192 – Advanced Aircraft Types

You will study engine, electrical, fuel, pneumatic, hydraulic and mechanical systems as they relate to aircraft. The course includes type-specific ground schools on twin-engine piston and turbine aircraft.

Credit unit(s): 4.0
Prerequisites: none
Equivalent course(s): none

AVIA 192 – Advanced Aircraft Types **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify specific aircraft operational capabilities and limitations.			
2. Calculate weight and balance problems.			
3. Calculate aircraft performance in various scenarios.			
4. Examine aircraft systems.			
5. Examine system redundancies.			
6. Discuss multi-engine emergency procedures.			
7. Discuss minimum equipment lists.			
8. Examine the different types of fire extinguishers.			

PLAR assessment

If you qualify for PLAR, assessment for this course will be based on review of required documentation and an interview.

AVIA 193 – Flight Operations 2

You will study engine, electrical, fuel, pneumatic, hydraulic and mechanical systems as they relate to aircraft. The course includes type-specific ground schools on twin-engine piston and turbine aircraft.

Credit unit(s): 3.0
Prerequisites: none
Equivalent course(s): none

AVIA 193 – Flight Operations 2 **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Assess aircraft type use.			
2. Perform advanced weight and balance calculation.			
3. Discuss system redundancies.			
4. Examine multi-engine emergency procedures.			
5. Examine sys minimum equipment lists.			
6. Examine advanced flight operations.			
7. Examine Canadian and international regulations for air transport of dangerous goods.			

PLAR assessment

If you qualify for PLAR, assessment for this course will be based on review of required documentation and an interview.

AVIA 280 – Canadian Aviation Regulations 2

You will learn how to apply for an Air Operator Certificate (AOC) and examine company operations manuals and specifications. This course includes CARs sections applicable to 702, 703, 704 and 705 operations. Commercial air carrier operations and CARs requirements for flight will be emphasized.

Credit unit(s): 1.0
Prerequisites: none
Equivalent course(s): none

AVIA 280 – Canadian Aviation Regulations 2 **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Examine regulations necessary to obtain Air Operator Certificate.			
2. Discuss Operations Manual and Air Operator Certificate.			
3. Explain crew rights, duties and privileges.			

PLAR assessment

If you qualify for PLAR, assessment for this course will be based on review of required documentation and an interview.

ENGN 180 – Aircraft Engines

You will study various types of aircraft engines and propellers, including piston and turbine. You will examine general maintenance procedures including entries into aircraft journey logbooks.

Credit unit(s): 3.0
Prerequisites: none
Equivalent course(s): none

ENGN 180 – Aircraft Engines **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify types of aircraft engines.			
2. Examine major engine components			
3. Examine engine aircraft systems.			
4. Examine different performance capabilities of aircraft engines.			
5. Examine pilot maintenance privileges according to Canadian Aviation Regulations (CARs).			
6. Record entries into a practice aircraft journey logbook.			
7. Examine aircraft propeller systems.			

PLAR assessment

If you qualify for PLAR, assessment for this course will be based on review of required documentation and an interview.

HUMR 187 – Human Factors and Crew Resource Management

You will relate aviation physiology, psychology, medical and interpersonal issues to survival skills and your ability to function as a safe and effective flight crew member. You will practice your skills by preparing a survival plan.

Credit unit(s): 3.0
Prerequisites: none
Equivalent course(s): none

HUMR 187 – Human Factors and Crew Resource Management **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Discuss health problems that affect pilot efficiencies and safety.			
2. Explain visual and vestibular illusions.			
3. Demonstrate crew resource management techniques to ICAO standards.			
4. Discuss fatigue risk management systems.			
5. Recognize diverse personality types and cultures.			
6. Prepare a ground survival plan.			

PLAR assessment

If you qualify for PLAR, assessment for this course will be based on review of required documentation and an interview.

INST 185 – Aircraft Instruments

You will study the principles of instrument function and limitations. You will practice interpreting instrument readings.

Credit unit(s): 1.0
Prerequisites: none
Equivalent course(s): none

INST 185 – Aircraft Instruments **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe the operation of aircraft instruments.			
2. Interpret aircraft instrument indications.			
3. Analyze the serviceability of aircraft instruments.			

PLAR assessment

If you qualify for PLAR, assessment for this course will be based on review of required documentation and an interview.

INST 186 – Instrument Flying

You will study the regulations, theory and practical applications of instrument flying rules (IFR). Your studies will emphasize the use of Nav Canada and Canada Air Pilot publications.

Credit unit(s): 4.0
Prerequisites: none
Equivalent course(s): none

INST 186 – Instrument Flying **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Discuss general IFR operations and limitations.			
2. Examine Canadian Aviation Regulations (CARs) relevant to instrument flying procedures.			
3. Review the relevant weather information applicable to IFR flying.			
4. Discuss the application of IFR minima to operational scenarios.			
5. Examine the various maps and charts used for IFR flying.			
6. Review the operations of various navigation instruments used in IFR flying.			
7. Examine the applicable charts used for departures, arrivals, and approaches.			
8. Prepare an IFR navigation log.			
9. Prepare an ICAO IFR Flight Plan form.			
10. Discuss emergency procedures in IFR flight.			
11. Use the basic functions of the Global Positioning System (GPS) receiver.			

PLAR assessment

If you qualify for PLAR, assessment for this course will be based on review of required documentation and an interview.

AVIA 183 – Flight Operations 1

You will study aircraft performance and operational procedures.

Credit unit(s): 3.0
Prerequisites: none
Equivalent course(s): none

AVIA 183 – Flight Operations 1 **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Plan a variety of cross-country flights.			
2. Differentiate dispatch and flight following procedures.			
3. Examine aircraft documents.			
4. Use aircraft performance charts.			
5. Perform weight and balance calculations.			
6. Prepare documentation for cross-border flights.			
▪ Plan VFR cross-country flight to USA ▪ Locate FAA and TC trans-border information on websites ▪ List required FAA and TC documents ▪ List required Customs and Immigration documents ▪ Prepare ICAO flight plan			
7. Choose appropriate de-ice procedures.			

PLAR assessment

If you qualify for PLAR, you may be asked to demonstrate your learning in one or more of the following ways. Be prepared to clarify assessment directions during a consultation meeting.

1. **Evidence file**. Submit a log book entry to provide evidence you have flown a cross-border flight as pilot-in-command, or first officer.

OR

2. **Challenge assignment.** Demonstrate competency for cross-border flights by documenting processes based on a scenario.

Resources

Ask the PLAR contact person or the assessor for this course to recommend resources for independent learning to fill any gaps in your course knowledge.

AVIA 184 – Canadian Aviation Regulations (CARs 1)

You will study the Canadian Aviation Regulations (CARs) with emphasis on Visual Flight Rules (VFR) procedures and requirements.

Credit unit(s): 1.0
Prerequisites: none
Equivalent course(s): none

AVIA 184 – Canadian Aviation Regulations (CARs 1) **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Examine the CARs relevant to VFR operations.			
2. Discuss Transport Canada (TC) enforcement policy and procedures.			
3. Compare USA and Canadian air space procedures.			

PLAR assessment

If you qualify for PLAR, you may be asked to demonstrate your learning in one or more of the following ways. Be prepared to clarify assessment directions during a consultation meeting.

1. **Evidence file**. Submit a log book entry to provide evidence you have flown a cross-border flight as pilot-in-command, or first officer.

OR

2. **Challenge assignment.** Demonstrate competency for cross-border flights by documenting processes based on a scenario.

Resources

Ask the PLAR contact person or the assessor for this course to recommend resources for independent learning to fill any gaps in your course knowledge.

AVIA 191 – Cultural Awareness

You will examine Canadian society from a sociological perspective. The elements of culture and differences between cultures will be discussed. Social stratification in Canadian culture and how the stratification impacts various cultural groups will also be examined. Other topics include race, ethnicity and prejudice. Barriers to intercultural communication will also be included.

Credit unit(s): 2.0
Prerequisites: none
Equivalent course(s): none

AVIA 191 – Cultural Awareness **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe the basic elements of sociology.			
2. Discuss the elements of culture.			
3. Describe the impact of power and privilege on Aboriginal people in Canadian society.			
4. Examine the social meaning of race and ethnicity.			
5. Examine cultural diversity in Canada.			

PLAR consultation

Consult with the Commercial Pilot PLAR contact person regarding full program PLAR. They will coordinate PLAR assessment for Arts and Sciences (A&S) courses and refer you to the appropriate A&S PLAR assessor for directions.

PLAR assessment

If you qualify for PLAR, you may be asked to demonstrate your learning in one or more of the following ways. Be prepared to clarify assessment directions during a consultation meeting.

1. **Challenge Exam.** Demonstrate competency through response to case study scenarios.

OR

2. **Evidence file.** Documentation of completion of workplace training in cultural awareness or sensitivity training.

   Or Transcript of course completion in sociology, native studies or other related fields, with course outline(s) provided. If completed within 5 years and closely matched to this course, a transfer credit option may be available.

AND/OR

3. **Structured interview**

Resources

Ask the PLAR contact person or the assessor for this course to recommend resources for independent learning to fill any gaps in your course knowledge. Look for related resources from libraries, online, and other sources. Purchasing resources from the Sask Polytech Bookstore is optional.

BUS 183 – Aviation Business

You will acquire essential business knowledge that will contribute to the success of the flight operation that employs you. The course content includes commercial aviation in the business world, business plans and marketing.

Credit unit(s): 2.0
Prerequisites: none
Equivalent course(s): none

BUS 183 – Aviation Business **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe commercial aviation in the business world.			
2. Analyze the contents of an aviation business plan.			
3. Explain profit and loss as a function of operational factors in an aviation operation.			
4. Use spreadsheet features.			

PLAR assessment

If you qualify for PLAR, you may be asked to demonstrate your learning in one or more of the following ways. Be prepared to clarify assessment directions during a consultation meeting.

1. **Evidence file**. Evidence of successful completion of a business course with course outline provided. If completed within 5 years and closely matched to this course, a transfer credit option may be available.

   Or Evidence of experience owning/operating or managing a small business. Discuss appropriate documentation with your assessor.

OR

2. **Challenge assignment**. Assignment demonstrating competency through a combination of business case study scenarios.

AND/OR

3. **Structured interview**

Resources

Ask the PLAR contact person or the assessor for this course to recommend resources for independent learning to fill any gaps in your course knowledge.

COMM 393 – Communications 1

You will develop the oral and written skills needed to communicate effectively in a variety of situations. You will also demonstrate appropriate customer service skills and use job search skills.

Credit unit(s): 3.0
Prerequisites: none
Equivalent course(s): none

COMM 393 – Communications 1 **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Use job search skills.			
2. Apply job related oral and interpersonal communication.			
3. Apply job related written information.			
4. Demonstrate customer service skills.			

PLAR consultation

Consult with the Commercial Pilot PLAR contact person regarding full program PLAR. They will coordinate PLAR assessment for Arts and Sciences (A&S) courses and refer you to the appropriate A&S PLAR assessor for directions.

PLAR assessment

If you qualify for PLAR, you may be asked to demonstrate your learning in one or more of the following ways. Be prepared to clarify assessment directions during a consultation meeting.

1. **Evidence file.** Documentation of successful completion of a communications and/or customer relations course(s). If completed within 5 years and closely matched to this course, a transfer credit option may be available.

   And/or Evidence of prepared personal resume, cover letter, and personal interview.

Resources

Ask the PLAR contact person or the A&S assessor for this course to recommend resources for independent learning to fill any gaps in your course knowledge. Look for related resources from libraries, online, and other sources. Purchasing resources from the Sask Polytech Bookstore is optional.

ELTR 183 – Aircraft Electronics and Avionics

You will examine electrical theory and power generation as it applies to aircraft electrical systems. You will also examine various avionics and electrical systems including EFIS. Troubleshooting electrical problems and appropriate emergency procedures will also be discussed.

Credit unit(s): 3.0
Prerequisites: none
Equivalent course(s): none

ELTR 183 – Aircraft Electronics and Avionics **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Examine properties of AC and DC power generation and current.			
2. Examine Pilot Operating Handbook (POH) diagrams of electrical distribution.			
3. Discuss pre-flight, in-flight and emergency checklist procedures relating to electrical problems.			
4. Identify redundancies in aircraft electrical systems to trouble-shoot atypical problems.			
5. Identify sources of electrical fires.			
6. Examine radio, radar, navigation equipment and electronic flight instrument system (EFIS).			

PLAR assessment

If you qualify for PLAR, you may be asked to demonstrate your learning in one or more of the following ways. Be prepared to clarify assessment directions during a consultation meeting.

1. **Evidence file.** Evidence of completion of flight safety training, company training on aircraft electrical systems, or similar training with a course outline provided.

   Or Evidence of a current or previously held PPC (Pilot Proficiency Check).

OR

2. **Challenge exam**

Resources

Ask the PLAR contact person or the assessor for this course to recommend resources for independent learning to fill any gaps in your course knowledge.

MATH 389 – Mathematics

You will study the mathematics, algebra and geometry needed to solve various aviation-related mathematical and physics problems.

Credit unit(s): 3.0
Prerequisites: none
Equivalent course(s): none

MATH 389 – Mathematics **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Solve basic mathematical problems.			
2. Solve algebraic equations.			
3. Solve geometric and trigonometric problems.			
4. Perform mathematic calculations using approximations, estimates, and significant figures.			
5. Examine various mental techniques used to calculate mathematical problems.			
6. Compute interpolations using aircraft performance charts.			
7. Solve various aviation related mathematical problems.			

PLAR consultation

Consult with the Commercial Pilot PLAR contact person regarding full program PLAR. They will coordinate PLAR assessment for Arts and Sciences (A&S) courses and refer you to the appropriate A&S PLAR assessor for directions.

PLAR assessment

If you qualify for PLAR, you may be asked to demonstrate your learning in one or more of the following ways. Be prepared to clarify assessment directions during a consultation meeting.

1. **Challenge exam**

OR

2. **Challenge assignment.** Assignment demonstrating competency through completing various aviation-related scenarios.

OR

3. **Evidence file.** Evidence of mathematics aviation-related course(s), with course outlines supplied. If completed within 5 years and closely matched to this course, a transfer credit option may be available.

Resources

Ask the PLAR contact person or the assessor for this course to recommend resources for independent learning to fill any gaps in your course knowledge. Look for related resources from libraries, online, and other sources. Purchasing resources from the Sask Polytech Bookstore is optional.

PHYS 185 – Physics

You will study the principles of basic physics with emphasis on various aviation topics including motion and energy.

Credit unit(s): 3.0
Prerequisites: none
Equivalent course(s): none

PHYS 185 – Physics **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Examine basic physics concepts.			
2. Examine physical properties of matter.			
3. Discuss physical properties of the atmosphere.			
4. Examine the gas laws.			
5. Discuss electrical energy concepts.			
6. Examine the concepts of dynamics.			
7. Examine basic aerodynamic concepts.			

PLAR consultation

Consult with the Commercial Pilot PLAR contact person regarding full program PLAR. They will coordinate PLAR assessment for Arts and Sciences (A&S) courses and refer you to the appropriate A&S PLAR assessor for directions.

PLAR assessment

If you qualify for PLAR, you may be asked to demonstrate your learning in one or more of the following ways. Be prepared to clarify assessment directions during a consultation meeting.

1. **Challenge exam**

OR

2. **Challenge assignment.** Complete various aviation-related scenarios.

OR

3. **Evidence file.** Evidence of physics aviation-related course(s), with course outlines supplied. If completed within 5 years and closely matched to this course, a transfer credit option may be available.

Resources

Ask the PLAR contact person or the assessor for this course to recommend resources for independent learning to fill any gaps in your course knowledge. Look for related resources from libraries, online, and other sources. Purchasing resources from the Sask Polytech Bookstore is optional.

Appendices

Appendix A

Employment and training verification

Instructions:

The purpose of requesting a letter from your employer(s) is to verify your employment experience and training as a commercial pilot. If you prefer not to disclose your education plans to your employer, please see alternative documentation that may be accepted to verify your employment experience and training. Please discuss your preferred option during initial consultation with the Commercial Pilot Program Head.

An employer's verification letter must be printed on the letterhead of your current or previous employer and signed by the human resources department. It should specify the length of employment, your employment position, and include additional documentation or descriptions as indicated in the letter template.

A request form and letter template is provided on the next page. Completed verification letters and attachments should be submitted directly by your employer's human resources department by mail, email attachment, or fax to the Commercial Pilot Program Head as indicated on the request form.

Employment verification letter

Request and permission:

I, *(full name)* _____, request a letter of employment verification and additional information related to my job duties and training as per the following suggested template to be sent directly by mail, email attachment, or fax to:

Randall Muzyka, Program Head,
Commercial Pilot Program
Saskatchewan Polytechnic
Saskatoon Campus, Koyl Avenue

Mailing address:	P.O. Box 1520 Saskatoon, SK S7K 3R5
Phone:	306-933-7290
Fax:	306-964-2100
Email:	randall.muzyka@saskpolytech.ca

Thank you.

Signature: _____ Date: _____

Suggested Letter Template

Employer's official letterhead

Date

To Whom It May Concern:

I have reviewed the employment records of *Name of employee* and verify that the employee has been employed in the position of *job title or position* by *Name of company/employer* from *month, year* to *month, year*.

Attached are the following documents to provide additional information about the employee's job position and training: *(Examples are job description, duties/responsibilities, types of aircraft flown, recurrent training, company training, and any additional information available regarding employment, experience, and training.)*

Please contact me at *phone number* or *email address* for questions or to request additional information.

Sincerely,

Signature
Name
Position