



**DEPARTMENT OF POWER ENGINEERING
COURSE OUTLINE - WINTER 2015
POF 407 PE4B1 POWER LAB - 0.5(0/0/4)20**

INSTRUCTOR: Kevin Taylor PHONE: 780-539-2869
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OFFICE: E401-2 E-MAIL: KTaylor2@gprc.ab.ca
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OFFICE HOURS: As Posted

PREREQUISITE(S)/COREQUISITE:

A high school diploma including at least:

- 65% in English 20-1 or 20 -2, AND
- 65% in Math 20-1 or 20-2, AND
- 65% in any Science (Physics, Chemistry, Biology or Science) in the 20 stream, AND
- A Career Investigation (specified format)

OR

- Mature students not meeting the above requirements may request a review of their education and prior work skills by the Power Engineering Team at GPRC.

REQUIRED PPE/RESOURCE MATERIALS:

- CSA class 3 steel toe boots
- Flame resistant coveralls
- Gloves
- Safety glasses

This lab will help the students work on the materials covered in the PE4B1 book.

This will include working on heating boilers, heating systems, heating controls, Prime movers, Pumps and compressors and lubrication.

CREDIT/CONTACT HOURS:

Credits 0.5

Contact Hours 4 hours per week, 20 hours

DELIVERY MODE(S):

Labs

OBJECTIVES (OPTIONAL):

Dismantle pumps, compressors, and turbines. Experiment with lubricants, operate, dismantle and reassemble heating boilers.

TRANSFERABILITY: As per ABSA requirements

** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A+	4.0	90 – 100	EXCELLENT
A	4.0	85 – 89	
A-	3.7	80 – 84	FIRST CLASS STANDING
B+	3.3	77 – 79	
B	3.0	73 – 76	GOOD
B-	2.7	70 – 72	
C+	2.3	67 – 69	SATISFACTORY
F	0.0	0 – 66	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

EVALUATIONS:

Method	Percentage	Minimum
Course assignments	10%	67%
CML quizzes	10%	67%
Labs	10%	67%
Unit Exams	30%	67%
Final Exam	40%	67%
	100%	67%
		67% average, with no mark below 50%

STUDENT RESPONSIBILITIES:

* Students must complete all labs and assignments with no failing grades and a minimum of 67%, and attend 100% of all classes and labs to successfully complete this course. Other requirements as per Power Engineering Student Manual.

STATEMENT ON PLAGIARISM AND CHEATING:

Refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at www.gprc.ab.ca/about/administration/policies/**

**Note: all Academic and Administrative policies are available on the same page.

COURSE SCHEDULE/TENTATIVE TIMELINE:

March to April