
Outline of PN 1050 (4) Power Engineering I, Part A

Basic Course Information

Instructor: Houshang Ghazi, MEng, MSc.

Office: Room M104

Phone: 539-2704, Fax: 539-2791

Office Hours:

Mondays through Thursdays 16:00-17:00

Pre-requisite:

A General High School Diploma: A minimum of 50% in Math-20 or Applied or Pure Math-20, or Math-23; and Science-20 or Physics-20, or their equivalents. If no high school diploma but have been out of school for at least one year, you need 50% in English 30-1 or 30-2 or the equivalent, and 50% in Math-20 or Applied or Pure Math-20, or Math-23, and Science-20 or Physics-20 or their equivalents. Applied Math-30 and Physics-30 or Science-30, are needed.

Text: Power Engineering, Fourth Class, Second Edition, January 2006, Published by PanGlobal Training Systems Ltd.

Grading Scheme:

Quizzes: 30%
Midterm: 35%
Final: 35%

COURSE DESCRIPTION:

This is a study of environmental controls, materials welding, piping and fittings, high pressure boiler design, draft equipment, combustion and high pressure fittings, high pressure boiler operation, and feed water treatment.

COURSE OBJECTIVES:

Understanding of the terms and equipment topics listed at the course description above.

Grades:

For the college grading system details refer to:

<http://www.gprc.ab.ca/pdf/policies/academic/GradingPolicy-2003.pdf>

Instructional Approach:

A data projector will be used for the teaching of the text material

Quizzes / Assignments:

There will be no designated assignment, but three quizzes for the course will be taken.

Midterm & Final Exam:

There is a midterm for PN1050, and a final exam which is combined with PN1055.

Tips for Succeeding in this Course

Read the textbook before the material covered in the class.

Attend all classes with full attention

Instructor Expectation:

1- Guidelines governing student conduct rules at the college are listed in the college calendar 2006-2007 pages 43 to 47. Please become familiar with these expectations.

2- The college and the Workforce Development Department are established for adult education with expectations for behavior established as noted above. A log will be kept for any student who fails to meet these expectations. Continued entries in this of inappropriate behaviors can result in removal from class.

Attendance:

1- Technician and technology programs are either certified or regulated by outside government agencies or departments and as a result, attendance is mandatory. As such an attendance list is circulated in every class. Each student needs to print his/her full name in the

appropriate space for each class and sign it in order to maintain a record of attendance. Students are reminded that attendance in class is mandatory. Please communicate with the instructor if there are extenuating circumstances that prevent your attendance.

2- Any other issues that may affect the performance of a student academically, needs to be addressed to myself or the director of the workforce department (Kathleen Frei) in order to be provided advice or assistance. I welcome any feedback from the students in order to improve my teaching pattern in the class or to be more helpful with the progress of the students.

Record Retention:

Class records related to this course will be maintained for six months after the last day of classes. These records will then be destroyed in a secure manner.

PN1050
Tentative Class Schedule Fall 2006

	Dates	Topic	Chapter Reading
1	(W, M) Sep 6, 11	Introduction & Elementary thermodynamics	A1(U3)
2	(T) Sep 12	Sketching	A1(U4)
3	(W, M) Sep 13, 18	Codes and standards, Plant fire protection	A1(U5, 8)
4	(T, W, R) Sep 19, 20, 21	Environment	A2(U9)
5	(F) Sep 22	Materials welding	A2(U10)
6	(M) Sep 25	(Quiz-1-) , Materials welding	A2(U10)
7	(T, W) Sep 26,27	Material welding	A2(U10,11)
8	(R, F) Sep 28, 29	Piping	A2(U11)
9	(M, T) Oct 2, 3	HP boiler design	A2(U12)
10	(W, R, F) Oct 4, 5, 6	(Quiz-2) , Draft, combustion, HP boiler fittings	A2(U13)
	(M) Oct 9	Holiday	
12	(T) Oct 10	(Quiz-3) , Draft, combustion, HP boiler fittings	A2(U13)
13	(W, R) Oct 11, 12	HP boiler operation	A2(U14)
14	(F) Oct 13	Feed water treatment	A2(U15)
15	(M) Oct 16	(Midterm) , Prime movers and engines	B1(U16)