School of Renewable Resources
Certificate in Renewable Energy

RNW 111
Electrical Fundamentals

Course Outline
Fall, 2009

Instructor: Julie-Claire Hamilton
Office: Silverking Campus 207G
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Instructor Hours: Posted on office door
Hours/ Week & Schedule:
Lecture: 12:00 noon – 4:00pm, Thursday
Lab: 8:00am – 12:00 noon, Friday
Seminar: 11:00 am – 12:00 noon, Thursday

Evaluation:

Midterm Exam (2 @ 20 % each)	40%
Final Exam	30%
Graded worksheets / lab assignments	20%
Professionalism (punctual, regular attendance, prepared, equipped and contributing to personal and team success)	10%
TOTAL	100%

Grading:

A+	95% to 100%	= 4.00	B+	80% to 84%	= 3.33	C+	65% to 69%	= 2.33
A	90% to 94%	= 4.00	B	75% to 79%	= 3.00	C	60% to 64%	= 2.00
A-	85% to 89%	= 3.67	B-	70% to 74%	= 2.67	C-	55% to 59%	= 1.67
						P	50% to 54%	= 1.00
						F	Less than 50%	= 0.00
						DNW	Did not withdraw	= 0.00

Professionalism will be evaluated on the basis of punctuality, regular attendance, preparation, completion of assignments as scheduled, courtesy during classes, and other educational activities, helping classmates to learn course material, respect for college property, public and private property visited while on field trips. These are qualities that employers seek in renewable energy technicians and technologists, and are therefore behaviors that are encouraged and entitled to recognition. These qualities are not easily measured and require discretion in their evaluation on the part of the instructor.

Additional Relevant Information/Course Expectations:

Attendance and Late Assignments:

Students are expected to make every reasonable effort not to miss examinations and to submit assignments on time. Compassionate excuses will be considered only if documented. Students must advise the instructor *before* assignment deadlines if they are unable to meet the schedule in order to qualify for rescheduling otherwise *late assignments will not be accepted for grading.*

The academic policies of the School of Renewable Resources and Selkirk College will be observed. For more information on these policies refer to the School of Renewable Resources Academic Policies and the Selkirk College Calendar at http://ecampus.selkirk.ca/ or visit the Advanced Certificate in Renewable Energy program web site at http://selkirk.ca/programs/rr/academicprograms/renewableenergy/

Course Schedule:[1]

week	Date (week ending)	Topic or activity	Assignment	Deadlines
1	Sept. 10, 2009	Field Trip to Ron Hookendorf's micro hydro plant	Field Trip Notes	
1	Sept. 11, 2009	Safety and Orientation	Reading and worksheets on safety	
2	Sept. 17, 2009	Series/Parallel Circuits	Work Sheets / labs	
2	Sept. 18, 2009	Circuitry and mock electrical set up in shop	Classroom/lab	
3	Sept. 24, 2009	Combination Circuits	Readings and worksheets	Midterm 1
3	Sept 25, 2009	Residential Circuitry	Classroom/Lab	
4	Sept 30, 2009	D/C and A/C Fundamentals	Work Sheets / Lab	
4	Oct. 1, 2009	Field Trip to various electrical job sites, residential, commercial	Work Sheets and readings	
5	Oct. 8, 2009	Motors and Generators Part 1	Work Sheets / Lab	Midterm 2
5	Oct. 9, 2009	Motors and Generators Part 2	Work Sheets / Lab	

[1] Course schedule is subject to change without notice.

6	Oct. 15, 2009	Circuit Protection Devices	Work Sheets / Lab	
6	Oct 16, 2009	Electrical Drawings	Work Sheets / Prints	
7	Oct 22, 2009	Review for final exam	Work Sheets	
7	Oct. 23, 2009	**Final Exam**		**Final Exam**

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