



DEPARTMENT OF ARTS & EDUCATION

COURSE OUTLINE – Summer session August 16 – 20, 2010

EDCT 210; TEACHING POWER TOOLS and PROCESSES

INSTRUCTOR:

C.Hildebrandt

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OFFICE:

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OFFICE HOURS:

PREREQUISITE(S)/COREQUISITE:

Teaching certificate; letter of authority, or candidates for letter of authority; audit; attendance by permission of instructor.

REQUIRED TEXT/RESOURCE MATERIALS:

Variety of instruction manuals, Ab. Ed. CTS program of studies. Instructional videos.

CALENDAR DESCRIPTION:

This course covers the very basic skills required to teach introductory and intermediate level machines and processes in the materials areas specifically woodworking and other non-ferrous materials. A comprehensive review of teaching and learning resources and practices as well as project development and assessment will be undertaken. Emphasis will be on hazard identification, safe use and skill development as well as teaching strategies and safety instruction record keeping.

A project incorporating the use of nine stationary and five portable power tools will be the focal point along with hands-on tool and equipment maintenance.

CREDIT/CONTACT HOURS:

40 Hours, 3 credits (U of A transfer)

DELIVERY MODE(S):

Videos; Demonstrations; Discussion; Sketching / drawing; blue-print reading.

Hands on machine, tool, material usage.

OBJECTIVES:

After completing this course the student will have acquired the basic skills and knowledge required to make safety hazard assessment, demonstrate the safety and normal operations of nine stationary power machines and five portable power tools. The knowledge and skills gained will result in proper instructional theory and project planning to meet curricular requirements, as well as materials management and equipment maintenance.

TRANSFERABILITY:

**** 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**

EXAMINATIONS:

The final examination will be based on the assimilation of the understanding of safety, instruction, project planning, and program delivery in the use of power equipment in the classroom.

Course evaluation will also include the on-going evaluation of the progress and completion of the instructional project, as well as the ability and understanding of machine tool maintenance

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
C	2.0	63 – 66	
C ⁻	1.7	60 – 62	
D ⁺	1.3	55 – 59	MINIMAL PASS
D	1.0	50 – 54	
F	0.0	0 – 49	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

STUDENT RESPONSIBILITIES:

The student will undertake to follow all construction procedures as outlined in the project plans and perform all related work in a craftsman like manner.

STATEMENT ON PLAGIARISM AND CHEATING:

Please refer to pages 49-50 of the College calendar regarding plagiarism, cheating and the resultant penalties. These are serious issues and will be dealt with severely.

COURSE SCHEDULE/TENTATIVE TIMELINE:

EDCT 210 Teaching Power Tools and Processes Week Schedule Aug. 16 – 20 2010

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 / 9:45	1] Preliminaries GPRC rm. D208 --a. Overview of course. --b. Addendums --c. Introduction to assignments	1] Stationary power tools --Introduction & place in CTS programs. Intro of instructional template. -- a. Band saw. --b. Table Saw .	Stationary p.t. con't. --g. Drill press --h. Sanders – spindle, belt & disc, panel	1] Wood Lathe --i. Demo & hands on Assignment # 2 b	1] student demonstration of instruction
10:00 / 11.45	2] Power Hand tools [generic] --a. Introduction to the variety and their place in a CTS program. --b. Care & maintenance	--c. Panel saws --d. Jointer	2] Continue on assignment # 2	2] Equipment maintenance --a. Discussion & intro to Assignment # 3 --b. Hands on.	2] Project swap Q & A
12:30 / 2:15	<u>Comp. B. Const.</u> <u>Shop OH door #1</u> 3.Orientation of Comp a] Demos. & hands – On practice b] Proper use, hazards, safety & operations c] Project planning & demo to students.	--e. Thickness planner --f. RA saw; Mitre & Sld'g cmp'd saws	Assignment # 2, continued	Assignment # 3 continued	Hands on / equipment maintenance completion Assignment completion & evaluation
2:30 / 4:15	4. Intro to Assignment #1. --a. Activity time	2] Intro. & planning of major hands – on Assignment. #2a --a. Materials dist.	Assignment # 2, continued	Continue on assignments	3] Discussion on assignments --a. Course & assignment evaluation --b. Wrap- up --c. Final exam
4:15 / 5:15	5] Tutorial --a. Open activity time	3] Tutorial --a. Open activity time	4] Tutorial --a. Open activity time	4] Tutorial --a. Open activity time	4] shop clean-up

Instructional time: 7 hr. + 1 hr. Tutorial= 8 hr. / day X 5 = 40 class hours. [8 hr. Of instruction + `1 hr. - 15min. in breaks = 9 hr. – 15 min. day schedule]