

Career and Technology Studies

Provincial Professional Learning Opportunities

Summer 2009

Sponsored Post Secondary Sessions – Summer 2009

These courses are designed to meet the needs of BEd teachers or students within the education program who would like to build on skills necessary to teach in a Career and Technology Studies (CTS) setting.

These courses have been generously subsidized by a grant from Alberta Education.

You may also qualify for additional assistance with expenses. Complete information is posted on the Central Alberta Regional Consortium website (CARC) at: http://www.carcpd.ab.ca/CTS_PD

*APPLY NOW for sponsorship – please see the attached application form or check out the website TODAY!

ARPCD Summer Institute in CTS

To be held in Calgary; specific location and details TBA
Please see http://www.carcpd.ab.ca/CTS_PD/sponsored.html

Understanding by Design - Planning for CTS Implementation BIT, TMT and HRH

3 days - August 19, 20 and 21, 2009

Day 1

- AM* - HRH Planning within the CTS Framework
- PM* - BIT, TMT & HRH

Understanding by Design Planning Orientation

Day 2

Project Based Learning and Performance Task Planning

Day 3

Performance Task Planning and Assessment Tools Development

Through dialogue and hands on practice, this institute will explore the notion of *Understanding by Design* as a planning framework for effective teaching and learning in the revised CTS programs of studies including BIT (Business, Administration, Finance and Information Technology), TMT (Trades Manufacturing and Transportation) and HRH (Health, Recreation and Human Services). The following topics will be included:

- Connecting and integrating with CTS outcomes
- Using learning targets and criteria to guide learning
- Sharing and exploring ideas, meaningful tasks and projects
- Developing personalized formative tools for classroom use.

Grande Prairie Regional College

10726 – 106 Ave, Grande Prairie, AB T8V 4C4
Telephone: 780.539.2911 or 1.888.539.4772

Prepare to Teach Shop

5 days - August 10 – 14, 2009

8:30 am – 4:30 pm (ED4000 – University Transferable) \$350

Grande Prairie Composite High School

Shop layout, student project design, student safety, student management, student evaluation, course planning and budgeting will be covered.

Supervising and Teaching Power Tools & Processes

5 days - August 17 – 21, 2009

8:30 am – 4:30 pm (University Transfer - pending) \$350

Teaching strategies will be provided with a focus on grades 6-11, student safety, tool/equipment maintenance, and project planning.

University of Lethbridge

4401 University Drive West, Lethbridge, AB T1K 3M4
Telephone: 403.320.5700
E-mail: inquiries@uleth.ca

BIT - Focus on Enterprise and Innovation, Information Processing and Management & Marketing

3 days - August 17, 18 and 19, 2009

9:00 am to 3:30 pm

Learn the software and develop projects to support the new courses in the BIT cluster. Focus will be on Enterprise and Innovation, Information Processing and Management and Marketing clusters.

- Wonder how you can use "Adobe Creative Suite" to teach the new BIT curriculum?
- Want to collaborate with colleagues to design and create course materials?
- Looking for career resources to help students link BIT course content to their possible career path?

Lethbridge College

3000 College Drive South, Lethbridge, Alberta, T1K 1L6
Telephone: 403.317.3503 or 1.800.572.0103

TMT- Orientation to the 3400 level Apprenticeship courses in the Construction, Fabrication and Mechanics Pathways

1 day - Proposed date: August 25, 2009

8:30 am – 3:30 pm

Participants will discuss how the new Accreditation courses connect with the introductory, intermediate and advanced level CTS courses. Instructors will provide information related to the Apprenticeship programs at Lethbridge College. Breaking off into trade specific groups will allow for specific curriculum discussions, awareness of the College shop facilities and contacts for future support. A needs analysis/survey will be completed to determine interest in the development of future professional development opportunities using a mentorship model.

NAIT - Northern Alberta Institute of Technology

11762 – 106 St., Edmonton, AB T5G 2R1

Register Online: www.nait.ca/ContinuingEducation

Telephone: 780.471.6248 or TOLL-FREE 1.877.333.NAIT

NAIT's CTS Summer Institute will be delivered during a one-week period to Career and Technology Studies (CTS) teachers. Course content includes information related to CTS safety, the historical development of CTS, Project Management, and dealing effectively with special needs students, as well as instruction specific to Construction Fabrication or Food Studies.

Teachers who wish to register for either of these course streams are required to submit their active teacher certificate numbers along with the name of the school board they are employed with at time of registration.

CTS Summer Institute — Construction Fabrication [CTS10]

5 days - July 6 to 10, 2009 | Monday - Friday

8:00 am - 4:00 pm

Prerequisite: Bachelor of Education

\$675 - 39 hours

Issues related to construction and safety in a construction fabrication shop will be addressed, along with working with special needs students and project management in the education environment.

More than 20 hours of this training will be spent hands-on in the NAIT workshops constructing a variety of projects suitable to take back to the classroom for future work with students. You will be evaluated on the quality of your completed shop projects in addition to your work on your project management charter. You may also expect quizzes and assignments throughout the week.

Application is being made to have this course as a 1-credit transfer to the University of Alberta.

CTS Summer Institute — Food Studies [CTS20]

5 days - July 6 to 10, 2009 | Monday - Friday

8:00 am - 4:00 pm

Prerequisite: Bachelor of Education

\$675 - 39 hours

Teachers looking to expand their knowledge of food studies in a safe laboratory will also benefit from other aspects of this course which deal with working with special needs students, nutrition and food safety, and project management as it relates to the education environment.

More than 20 hours will be spent hands-on in the professional NAIT kitchens, learning how to prepare a variety of hot foods, cold foods and desserts that will be suitable as junior high or high school classroom projects. Participants will be evaluated on the quality of their completed menu items as well as their work on a project management charter. There will also be quizzes and assignments throughout the week.

Application is being made to have this course as a 1-credit transfer to the University of Alberta.

Red Deer College

5700 32 St, Red Deer, AB T4N 6P6

Register Online: www.rdc.ab.ca/continuingeducation

Telephone: 403.357.663

4 Day courses \$329 + GST

1 Day Courses \$85 + GST

Trades Manufacturing and Transportation (TMT)

The Trades courses will address specific CTS content using Individual Learning Modules (ILM's)

Carpentry

CRN 796 - Level 1 Teacher Carpentry Introduction

August 11 – 14

- Applicable carpentry skills and career options, hand tool safety guidelines and regulations and projects suitable for shop use.

CRN 868 - Level 2 Teacher Carpentry Projects and Assessment

August 17 – 20

- Applicable student carpentry projects and assessment, machine safety guidelines and regulations.

CRN 966 - Level 3 Teacher Carpentry

August 11 – 14

- Site preparation related to Building Orientation, Surveying, and Foundations and Forming Systems.

CRN 967 - Level 4 Teacher Carpentry

August 17 – 20

- Building Operations related to: Blueprint Reading, Floor Framing, and related student projects.

Red Deer College (continued)

Welding

CRN 869 - Level 1 Teacher Welding Introduction
August 11 – 14

- Applicable welding skills and career options, safety guidelines and regulations and projects suitable for shop use.

CRN 870 - Level 2 Teacher Welding Projects and Assessment
August 17 – 20

- Applicable welding projects and assessment, machine safety guidelines and regulations.

CRN 968 - Level 3 Teacher Welding
August 11 – 14

- Producing welding projects that demonstrate basic welds and applying assessments while using machines safely.

CRN 969 - Level 4 Teacher Welding
August 17 – 20

- Producing welding projects and applying assessments that will be useful for classroom situations.

Mechanics

CRN 965 - Level 1 Teacher Mechanics Introduction
August 11 – 14

- Applicable mechanic skills and career options, safety guidelines and regulations and projects suitable for shop use.

Logistics

CRN 971 - Level 1 Supply Chain Logistics Introduction
August 10

- Supply Chain Logistics is one of the most essential sectors of the Canadian economy, involving over 730,000 employees. The following will be covered with emphasis placed on the Transportation and Movement Sector: Logistics Information Systems, Warehousing and Distribution, Transportation/Movement, Inventory/Material Control, Purchasing/Procurement, Management and Marketing Sales.

Orientation Courses

CRN 972 - Orientation to delivering 3400 Courses
This one day course is August 21

Emphasis will be placed on the delivering of the new Alberta Education apprenticeship 3400 level CTS courses to be implemented September 2009. This course is aimed at the Journeyman who plans on delivering these courses. Suggested best practices and implementation will be offered at this time. Getting started, facilities and equipment, curriculum, assessment, resources, safety, are all topics within this one day course.

CRN 973 - Orientation to a Safety Framework
This one day course is August 10

Emphasis will be placed on suggestions for developing a safety culture. Clarification of eight safety elements and how they apply to building or identifying a Safety Management System is the focus of this course.

The NEW CTS Clusters

Business, Administration, Finance & Information Technology (BIT)

BIT Cluster Occupational Areas

- Computing Science (CSE)
- Enterprise and Innovation (ENT)
- Financial Management (FIN)
- Information Processing (INF)
- Management and Marketing (MAM)
- Networking (NET)

Trades, Manufacturing & Transportation (TMT)

TMT Cluster Occupational Areas

- Construction (CON)
- Carpentry Apprenticeship (CRA)
- Electro-Technologies (ELT)
- Fabrication (FAB)
- Welding Apprenticeship (WDA)
- Logistics (LOG)
- Mechanics (MEC)
- Auto Service Technician Apprenticeship (ASA)

Health, Recreation & Human Services (HRH)

HRH Cluster Occupational Areas

- Cosmetology (COS)
- Foods (FOD)
- Culinary Arts (CUL)
- Health Services (HES)
- Legal Studies (LGS)
- Tourism (TOU)

Media, Design & Communications Arts (MDC)

MDC Cluster Occupational Areas

- Communication Technology (COM)
- Design Studies (DES)
- Fashion Studies (FAS)

Natural Resources (NAT)

NAT Cluster Occupational Areas

- Agriculture (AGR)
- Energy and Resources (ENR)
- Environmental Stewardship (ENS)
- Forestry (FOR)
- Wildlife (WLD)

Non-sponsored Post Secondary – CTS Spring and Summer Courses

University of Alberta

EDCT 400 Food Prep, Demo and Pres

B6 Lec 11019

H6 Lab 11020

Selecting Lec B6 will automatically register the student in Lab H6
Class taught **July 20 to July 31**, Lec B1: 9:00 am to 10:50 am Lab H1: 11:00 am to 1:00 pm

Note: Registration restricted to Human Ecology Secondary Education Combined degree students until May 15, 2009

Students will learn how to organize, manage, and demonstrate food preparation and presentation techniques appropriate for teaching intermediate and advanced junior and senior high foods studies' students. Students will learn safe and hygienic food preparation and presentation practices.

EDCT 400 Music Instrument Making

A6 Lec 91238

D6 Lab 91237

Selecting Lec A6 will automatically register the student in Lab D6.
Class taught **May 25 to June 12**, Lec A6: 9:00 am to 10:50 am Lab D6: 11:00 am to 12:00 noon

The construction of both simple and complicated musical instruments can be used as a project in career and technology studies, music, science, social studies or mathematics classrooms. This course is designed to give teachers and/or education students the opportunity to design and build instruments, explore ways of integrating instrument making as a school project and discuss some of the implications of using such projects with secondary students. Instruction will be given in tool use, machine safety and instrument building techniques.

EDCT 500 Music Instrument Making

A6 Lec 91240

D6 Lab 91239

Selecting Lec A6 will automatically register the student in Lab D6.
Class taught **May 25 to June 12**, Lec A6: 9:00 am to 10:50 am Lab D6: 11:00 am to 12:00 noon

The construction of both simple and complicated musical instruments can be used as a project in career and technology studies, music, science, social studies or mathematics classrooms. This course is designed to give teachers and/or education students the opportunity to design and build instruments, explore ways of integrating instrument making as a school project and discuss some of the implications of using such projects with secondary students. Instruction will be given in tool use, machine safety and instrument building techniques.

EDCT 400 Design Studies I

B1 Lec 10583

H1 Lab 10585

Selecting Lec B1 will automatically register the student in Lab H1
Class taught **July 13 to 18**, Lec B1: 8:30 am to 12:50 pm Lab H1: 1:00 pm to 3:30 pm

This course introduces students to the language of technical drawings. Students will learn technical drawing techniques to plan and prepare scaled representations related to their area of interest. Students will gain knowledge of graphic symbols, multiview projection, isometrics, dimensioning, section and auxiliary views, design processes, pattern development, and specification interpretation. This course also includes an "introduction to AutoCAD" component.

EDCT 500 Design Studies I

B1 Lec 10586

H1 Lab 10588

Selecting Lec B1 will automatically register the student in Lab H1
Class taught **July 13 to 18**, Lec B1: 8:30 am to 12:50 pm Lab H1: 1:00 pm to 3:30 pm

This course introduces students to the language of technical drawings. Students will learn technical drawing techniques to plan and prepare scaled representations related to their area of interest. Students will gain knowledge of graphic symbols, multiview projection, isometrics, dimensioning, section and auxiliary views, design processes, pattern development, and specification interpretation. This course also includes an "introduction to AutoCAD" component.

EDCT 400 Design Studies II

B4 Lec 10834

H4 Lab 10836

Selecting Lec B4 will automatically register the student in Lab H4
Class taught **July 27 to August 14, 2009**, Lec B4: 9:00 am to 10:50 am Lab H4: 11:00 am to 12:00 noon

Students will gain an understanding of two AutoCA applications: Architecture Revit and Inventor. These applications are 3-D programs used to develop engineered mechanical and architectural drawings. Students will be introduced to 3-D concepts and use these skills to produce scaled drawings.

EDCT 500 Design Studies II

B4 Lec 10835

H4 Lab 10911

Selecting Lec B4 will automatically register the student in Lab H4
Class taught **July 27 to August 14, 2009**, Lec B4: 9:00 am to 10:50 am Lab H4: 11:00 am to 12:00 noon Selecting Lec B4 will automatically register the student in Lab H4

Students will gain an understanding of two AutoCAD applications: Architecture Revit and Inventor. These applications are 3-D programs used to develop engineered mechanical and architectural drawings. Students will be introduced to 3-D concepts and use these skills to produce scaled drawings.

Post Secondary Institutions

Summer Courses 2009

related to

Career and Technology Studies

CTS Cluster Occupational Areas

- Business, Administration, Finance & Information Technology (BIT)
- Trades, Manufacturing & Transportation (TMT)
- Health, Recreation & Human Services (HRH)
- Media, Design & Communications Arts (MDC)
- Natural Resources (NAT)

Summer courses offered to enhance instruction in CTS clusters

Post Secondary Institution	Location	Website	Cluster
Athabasca University	Online/ Distance	http://www2.athabascau.ca/programs/	BIT, TMT, HRH, MDC, NAT
Bow Valley College	Calgary	http://bowvalleycollege.ca/courses_programs/continuing_ed/index.htm	BIT, TMT, HRH, MDC, NAT
Canadian University College	Lacombe	http://www.cauc.ca/	BIT, HRH, NAT
Concordia University College of Alberta	Edmonton	Special Sessions – Spring and Summer: http://www.concordia.ab.ca/programs/specialsessions.php http://specialsessions.concordia.ab.ca/	BIT, MDC, NAT
DeVry Institute of Technology	Calgary	http://www.devry.edu/calgary/	BIT, TMT, HRH, MDC, NAT
Grande Prairie Regional College	Grande Prairie	http://www.gprc.ab.ca/programs/	BIT, TMT, HRH, MDC, NAT
Grant MacEwan College	Edmonton	http://www.gmcc.ab.ca/web/Parttime/home/index.cfm	BIT, TMT, HRH, MDC, NAT
Keyano College	Fort McMurray	http://www.keyano.ca/Courses/ or http://www.keyano.ca/Media/Collections/Calendars/Keyano.Calendar.ContinuingEducation.pdf	BIT, TMT, HRH, MDC, NAT
King's University College	Edmonton	Spring Sessions: http://www.kingsu.org/	MDC, NAT
Lakeland College	Vermillion Lloydminster	http://www.lakelandcollege.ca/continuing_ed/	BIT, TMT, HRH, MDC, NAT

Post Secondary Institution	Location	Website	Cluster
Lethbridge College	Lethbridge	http://www.lethbridgecollege.ab.ca/index.php?option=com_content&task=view&id=71&Itemid=302	BIT, TMT, HRH, MDC, NAT
Medicine Hat College	Medicine Hat	http://www.mhc.ab.ca/continuing-studies/	BIT, TMT, HRH, MDC, NAT
Mount Royal College	Calgary	http://conted.mtroyal.ca/	BIT, TMT, HRH, MDC, NAT
NAIT	Edmonton	http://www.nait.ca/8711.htm Distance Learning: http://www.nait.ca/29732.htm	BIT, TMT, HRH, MDC, NAT
NorQuest College	Edmonton	http://www.norquest.ab.ca/coned/index.htm	BIT, TMT, HRH, MDC, NAT
Olds College	Olds & Region	http://www.oldscollege.ca/programs/ContinuingEducation/index.htm	BIT, TMT, HRH, MDC, NAT
Portage College	Lac La Biche	http://www.portagecollege.ca/ Distance Education: http://www.portagecollege.ca/programareas/index.asp	BIT, TMT, HRH, NAT
Red Deer College	Red Deer	http://www.rdc.ab.ca/future_students/continuing_education/	BIT, TMT, HRH, MDC, NAT
St. Mary's University College	Calgary	Spring Sessions: http://www.stmu.ab.ca/	BIT, NAT, HRH, MDC
SAIT Polytechnic	Calgary	http://www.sait.ab.ca/pages/cometosait/continuingeducation/	BIT, TMT, HRH, MDC, NAT
University of Alberta, Faculty of Extension	Edmonton	http://www.extension.ualberta.ca/faculty/index.aspx	BIT, TMT, HRH, MDC, NAT
University of Calgary	Calgary	http://conted.ucalgary.ca/	BIT, TMT, HRH, MDC, NAT

This is just a sampling of what you will find offered at Alberta's Post Secondary Institutions in Summer 2009:

NAIT Summer Certificates at the Computer Training Centre – Servicing (Computer) Courses
<http://www.nait.ca/18502.htm>

If you have questions or know of other courses, please contact Donna McRae at
dmcrae@carcpd.ab.ca

CTS SUMMER LEARNING OPPORTUNITY SUPPORT

Building Capacity in Alberta Schools and Classrooms

This subsidy is being offered through a grant from Alberta Education to support implementation of the revised CTS curriculum.

Teachers can be reimbursed for attendance costs for CTS sessions related to subject-specific and skills oriented activities for Trades, Manufacturing and Transportation (TMT) and Business, Administration, Finance and Information Technology (BIT) clusters/courses. Sessions/courses should be provided by approved Alberta post-secondary institutions, however, other PD providers may be considered. Sponsored, non-sponsored and any other CTS related courses qualify for subsidy funding.

PART A: Application

***Please complete ALL information**

DATE: _____

NAME: _____

ADDRESS: _____

PHONE: _____

EMAIL: _____

DISTRICT: _____

SCHOOL: _____

TEACHING ASSIGNMENT OR CTS CLUSTER (If not currently teaching CTS, specify reason for subsidy request):

COURSE (Session description or course outline must be provided):

POST SECONDARY INSTITUTION (Alberta approved and other PD providers may be considered; please specify):

AMOUNT APPLIED FOR: \$ _____

Maximum \$100 per day up to 4 days; may include registration fees, accommodation, meals, etc. (max. claim \$400)

YOUR SCHOOL ADMINISTRATOR'S:

Name: _____

Phone: _____

Signature: _____

Applicants receiving approval will be advised via email. Please ensure your email information is correct.

Please submit **PART A** for approval to:

Donna McRae, Executive Director

Central Alberta Regional Consortium, 4210 – 59 Street, Red Deer, AB T4N 2M9

Phone: 403-348-8194

Fax: 403-348-8195

Email: dmcrae@carcpd.ab.ca

OFFICE USE ONLY ↓ -----

Date Approved

Executive Director's Signature

CTS SUMMER LEARNING OPPORTUNITY SUPPORT

Building Capacity in Alberta Schools and Classrooms

This subsidy is being offered through a grant from Alberta Education to support implementation of the revised CTS curriculum.

PART B: Expense Submission

Please submit this form following course completion.

NAME: _____

ADDRESS: _____

PHONE: _____

EMAIL: _____

DISTRICT: _____

SCHOOL: _____

How will this course impact your classroom or school CTS Program? (short answer)

Expense Summary (Receipts Required)

Registration Fee _____

Accommodation _____

Meals _____

Other (please specify) _____

TOTAL CLAIM: _____ (Max \$400)

Please submit to:
 Donna McRae, Executive Director
 Central Alberta Regional Consortium,
 4210 – 59 St, Red Deer, AB T4N 2M9
 Phone: 403-348-8194
 Fax: 403-348-8195
 Email: dmcr@carcpd.ab.ca

 Date Submitted

 Participant Signature

*** Please provide a copy of all course-related expense receipts and a copy of your APPLICATION.**

OFFICE USE ONLY ↓ -----

 Date Received

 Amount Approved

 Executive Director Signature