

CADD Transfer Innovations Project

FINAL REPORT

**Prepared By: Joanne Massey (Kwantlen Polytechnic University)
Project Coordinator
February 2010**

**For the
BC Drafting Technologies Articulation Committee (BCDTAC)**

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1. Opening Remarks

The BC Drafting Technologies Articulation Committee (BCDTAC) has been meeting at least once per year consecutively since 1992. The main focus of the annual articulation meetings has been to discuss articulation and transfer among programs, and yet it has been difficult to define a method to tabulate all the range of courses, teaching methods, and credits.

The CADD Transfer Innovations Project has advanced the formal articulation and transfer credit among CADD-related programs in BC. In some cases, complete transfer grids were completed and signed by all relevant parties, but in a few cases there are still outstanding issues to work out. It is anticipated that all outstanding issues can be addressed and resolved at the June 2010 BCDTAC meeting in Victoria BC.

After an analysis of all the institutions in BC offering CADD related programs, it was determined that the most effective Transfer Grids would include programs in the following areas:

- Architectural
- Civil
- Mechanical
- Structural

Relevant CADD related programs were identified at the following BC institutions:

- BCIT: BC Institute of Technology
- Camosun: Camosun College
- UFV: University of the Fraser Valley
- Kwantlen: Kwantlen Polytechnic University
- NIC: North Island College
- OC: Okanagan College
- TRU: Thompson Rivers University
- VCC: Vancouver Community College

The BCIT Civil Technology program asked not to be included in the project because they are going through accreditation with the Canadian Engineering Accreditation Board (CEAB). Once they received their accreditation, they believe they will be in a better position to receive transfer students.

Representatives from Okanagan College's Civil program did not attend BCDTAC meetings where the Transfer Grids were discussed. Given the lack of BCIT's and Okanagan College's involvement, there is no Civil Technology transfer grid since the only program is Camosun's Civil Technology. It is hoped that this transfer grid can be developed at the June 2010 BCDTAC meeting.

The BCIT Mechanical Technology program is going through a similar accreditation process, and that while they indicated they could not participate in any block transfer agreements, they did participate in the Transfer Grids project which included BCIT, Camosun and Okanagan College. A lot of work was done among these three Mechanical programs to find similarity and grant credit wherever possible, but there is still some clarification required on the Mechanical Transfer Grid, which will be addressed at the June 2010 BCDTAC meeting.

Note:

The Project Committee for the CADD Transfer Innovations Project had a member change due to the fact that Walter Prescott from TRU was unable to attend the June 2009 BCDTAC meeting.

For the duration of the project, the Project Committee consisted of:

1. Joanne Massey (Project Coordinator) - Kwantlen
2. Ross Lyle - Camosun
3. Larry Gritmaker - UFV

2) Transfer Grids

2.1) Transfer patterns among CADD-related programs, and history of the activities and agreements developed as part of BCDTAC

In B.C. there are several types of CADD (Computer Aided Design & Drafting) related programs:

- One year certificate programs
- Two year diploma programs
- Two year technology programs (accredited with CTAB*)
- Three year technology programs (accredited with CTAB*)

*Canadian Technologies Accreditation Board

Transfer Patterns:

a) Students with a certificate pursue a second certificate in a different specialty area of CADD.

Specialty areas include:

Architectural, Civil, Structural, Electrical, Mechanical and Steel Detailing

When the project started, programs that offered different specialties would often accept the students' first, or Core semester and allow them directly into the second, or specialty semester. Historically this was done on a one-to-one basis with review of each application, because there was no formal articulation between programs. As a result of the project, all CADD one-year certificate programs will formally grant credit to the Core, or first semester of other certificate programs.

b) Students with a certificate in a particular specialty area pursue a diploma in the same specialty area at a different institution that offers second year courses.

When the project started, credit could be granted for first year specialty courses of like nature for transfer into the second year of a diploma program. This was usually done on a one-to-one basis with review of each application, because there was no formal articulation between programs. As a result of the project, students can transfer from completion of a one-year CADD certificate program into the second year of another program with a clear indication of which courses will transfer.

c) Students with a certificate or diploma seek further education and certification by pursuing a technology diploma.

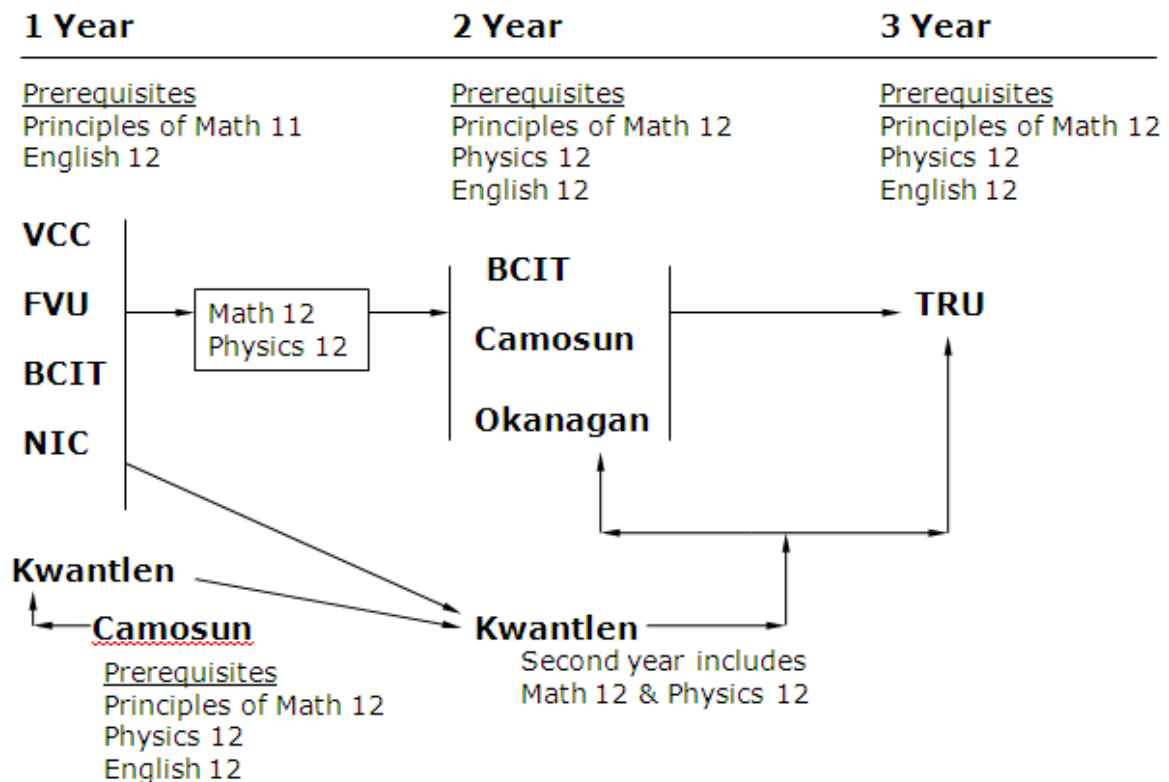
When the project started, only one technology program in B.C. recognized credits earned in a CADD certificate or diploma program, and that was a verbal agreement among member institutions of BCDTAC. As a result of the project, two more institutions offering two-year programs have joined BCDTAC and will now recognize credits earned in a one-year CADD certificate program.

2.2) How the Transfer Grids will improve transfer for CADD students, and how it will benefit both sending and receiving institutions

This project has formally articulated the existing agreements as detailed above, and added other technology programs (BCIT and Okanagan College) that will accept credits from CADD-related certificate and diploma programs.

The benefits to both sending and receiving institutions are:

- Increased awareness and recognition of similarities among CADD related programs in B.C. including:
 - BCIT: BC Institute of Technology
 - Camosun: Camosun College
 - UFV: University of the Fraser Valley
 - Kwantlen: Kwantlen Polytechnic University
 - NIC: North Island College
 - OC: Okanagan College
 - TRU: Thompson Rivers University
 - VCC: Vancouver Community College
- The Transfer Grids enable all the institutions listed above to be both sending and receiving institutions
- Descriptive Pathways Diagram based on the Transfer Grids



- Increased understanding and awareness among CADD related programs in B.C. as to how students can advance their education at another institution
- Increased understanding and awareness among CADD students in B.C. as to how they can advance their education at another institution
- Recognition of, and granting of credits earned in another CADD related program, and an understanding as to how this process is carried out
- Enhanced and expedient transferability between programs

2.3) Transfer Grids and Evidence of Acceptance

2.3 (a) Transfer Grids detailing CADD-related courses in participating institutions

See Appendix A

2.3 (b) Evidence of formal acceptance by participating institutions (as relevant to each initiation) that the information provided is correct

See Appendix A

2.4) Updating the Transfer Grids

The BCDTAC has been meeting at least once per year for 18 years consecutively. Articulation and Transfer Credit is always the focus of the meeting. Until this BCCAT funded project we were unable to develop a procedure to ensure the maximum transfer possibilities for students in a manner that was easy to support and facilitate.

This project has given us the structure to grant transfer credit to CADD students wherever possible. The review and updating of the Transfer Grids will be the first item on the annual BCDTAC meeting agenda, with the objective that the grids will be fully updated by the end of the meeting. All members are committed to this process and the Transfer Grids will be appropriately maintained.

3) Block Transfer

3.1) Brief analysis of transfer patterns

See Item (2.1) under Transfer Grids for historical transfer patterns in CADD-related programs.

During the process of the transfer project, two Block Transfer agreements were established:

- 1) Camosun Certificate graduates are granted the first semester credits into the NIC Drafting Program
- 2) Camosun Certificate graduates are granted the first semester credits into the Kwantlen CADD Technologies Program

It is anticipated that as these Block Transfer agreements develop and are applied, other institutions will initiate such agreements.

Further, the Kwantlen Technologies program has recently developed a 2nd Year option that is general, and not specific to any Specialty Area. It is their intent to create Block Transfer agreements with all CADD/Drafting Certificate programs directly into their second year. These additional Block Transfer agreements will be developed at the June 2010 Articulation Meeting.

3.2) How Block Transfer will improve transfer for CADD students and will benefit both sending and receiving institutions

See Item (2.2) under 2. Transfer Grids.

3.3) Block Transfer agreements and Evidence of Acceptance

3.3 (a) A Block Transfer agreement that details:

- Each participating institution
- The participating CADD –related programs at sending institutions
- The participating CADD –related programs at receiving institutions
- How many credits students receive upon transfer. Any other features such as preferential or guarantee admission
- Any conditions before entry, such as course grades or GPA, specific required courses

3.3 (b) Evidence of formal agreement by participating institutions (as appropriate to each initiation)

See Appendix B

3.4) Outline of a process to be used to ensure the CADD Block Transfer Agreement will be reviewed on a regular basis, and updated as appropriate.

The BCDTAC has been meeting at least once per year for 18 years consecutively. Articulation and Transfer Credit is always the focus of the meeting. Until this BCCAT funded project we were unable to develop a procedure to ensure the maximum transfer possibilities for students in a manner that was easy to support and facilitate.

This project has given us the structure to grant transfer credit to CADD students wherever possible. The review and updating of the Block Transfer Agreements will be the first item on the annual BCDTAC meeting agenda, with the objective that the agreements will be fully updated by the end of the meeting.

All members are committed to this process and the Block Transfer Agreements will be appropriately maintained. It is expected that additional Block Transfer Agreements will be created by other institutions as they become familiar with the process by observing the agreements that were developed as part of this project.

Appendix A – Signed Transfer Grids

CADD Transfer Innovations Project

Signed Architectural Transfer Grid

UFV – Larry Gritzmaker

NIC – Michael Whitmore

VCC – Graham Huckin

BCIT – Julia Hein

TRU – John Dumesnil

Kwantlen – Joanne Massey

Signed Structural Transfer Grid

NIC – Michael Whitmore

VCC – Graham Huckin

BCIT – Anna Tracovic

Kwantlen – Joanne Massey

Mechanical Transfer Grid (not signed)

BCIT – Paul Morrison

Okanagan – Quincy DeWitt

Camosun – Ross Lyle

Architectural CADD -- Transfer Grid (as determined at the June 29 2009 BCDTAC Meeting)

TOPIC	TRU Engineering Design	NIC Mech / Arch / Civil	BCIT Architectural Technology	UCFV Architectural CADD	VCC Architectural CADD	VCC Arch / Civil & Structural	Kwantlen Architectural CADD
CADD	ARET 111 & 210 CADD & Advanced CADD	DRT 181 Computer Assisted Drafting - Autocad	BLDG 1405 Architectural CAD 1	ADT 1 Drafting Fundamentals and CAD	DRFT 1101 & 1102 Basic Drafting 1 & 2	DRFT 1101 & 1102 Basic Drafting 1 & 2	CADD 1150 Computer Aided Design & Drafting
Introduction to Architecture	ARET 112 Introduction to Architecture	DRT 110 & 140 Architectural Draft/Materials		ADT 3 Building Construction 1	DRFT 1226 Construction Drawing Reading	DRFT 1226 Construction Drawing Reading	CADD 1110 Summative Project (House)
Drafting/Graphics	ARET 110 Graphical Communications	DRT 100 Introduction to Drafting					CADD 1100 Drafting Fundamentals
Office Software		DRT 185 Office Software for CADD Office					CADD 1160 Office Software and Procedures
Building Information Modeling (BIM)/ 3D		DRT 111 3D Building Information Modeling			DRFT 1252 3D CAD		CADA 1250 Building Information Model Software
Single Family Residential				ADT 5 Final Architectural Project	DRFT 1250 Single Family Residential - Bldg Layout		CADA 1210 Single Family Residential
Architectural Concepts					DRFT 1250 & 1251 Single Family Residential - Bldg Layout	DRFT 1320 Architectural Concepts	CADA 1200 Architectural Fundamentals
Multi-Family Residential					DRFT 1251 Multit- Family Residential - Bldg Layout		CADA 2100 Multi-Family Residential
Commercial					DRFT 1354 Commercial Building		CADA 1220 Commercial Building
Advanced Single Family Residential				ADT 4 Building Construction 2			CADA 1200 & 1210 Arch Fundamentals & Single Family Residential
Civil and Surveying	ARET 140 & 141 Civil Subdivision & Surveying	DRT 100 & 120 Topographic Civil Drafting & Surveying		ADT 7 Civil Drafting and Surveying			

I do hereby agree with the course equivalencies as indicated in the Architectural Transfer Grid. Our program will honor these course equivalencies when receiving students from other institutions, and grant the number of credits equal to our course.

Institution Name UNIVERSITY OF THE FRASER VALLEY
 Program Name ARCHITECTURAL DRAFTING
 Print Name LARRY GRITZMAKER

Signed  Date 8 JAN 2010

Architectural CADD – Transfer Grid (as determined at the June 29 2009 BCDTAC Meeting)

TOPIC	TRU Engineering Design	NIC Mech / Arch / Civil	BCIT Architectural Technology	UCFV Architectural CADD	VCC Architectural CADD	VCC Arch / Civil & Structural	Kwantlen Architectural CADD
CADD	ARET 111 & 210 CADD & Advanced CADD	DRT 181 Computer Assisted Drafting - Autocad	BLDG 1405 Architectural CAD 1	ADT 1 Drafting Fundamentals and CAD	DRFT 1101 & 1102 Basic Drafting 1 & 2	DRFT 1101 & 1102 Basic Drafting 1 & 2	CADD 1150 Computer Aided Design & Drafting
Introduction to Architecture	ARET 112 Introduction to Architecture	DRT 110 & 140 Architectural Draft/Materials		ADT 3 Building Construction 1	DRFT 1226 Construction Drawing Reading	DRFT 1226 Construction Drawing Reading	CADD 1110 Summative Project (House)
Drafting/Graphics	ARET 110 Graphical Communications	DRT 100 Introduction to Drafting					CADD 1100 Drafting Fundamentals
Office Software		DRT 185 Office Software for CADD Office					CADD 1160 Office Software and Procedures
Building Information Modeling (BIM)/ 3D		DRT 111 3D Building Information Modeling			DRFT 1252 3D CAD		CADA 1250 Building Information Model Software
Single Family Residential		<i>NOTE:</i>		ADT 5 Final Architectural Project	DRFT 1250 Single Family Residential - Bldg Layout		CADA 1210 Single Family Residential
Architectural Concepts		<i>DRT 181 + DRT 100 IS EQUIVALENT TO:</i>			DRFT 1250 & 1251 Single Family Residential - Bldg Layout	DRFT 1320 Architectural Concepts	CADA 1200 Architectural Fundamentals
Multi-Family Residential		<i>VCC DRAFT 1101 & 1102 UCFV ADT 1</i>			DRFT 1251 Multi- Family Residential - Bldg Layout		CADA 2100 Multi-Family Residential
Commercial		<i>DRT 1101 110 IS EQUIVALENT TO VCC DRAFT 1250</i>			DRFT 1354 Commercial Building		CADA 1220 Commercial Building
Advanced Single Family Residential				ADT 4 Building Construction 2			CADA 1200 & 1210 Arch Fundamentals & Single Family Residential
Civil and Surveying	ARET 140 & 141 Civil Subdivision & Surveying	DRT 100 & 120 Topographic Civil Drafting & Surveying		ADT 7 Civil Drafting and Surveying			

I do hereby agree with the course equivalencies as indicated in the Architectural Transfer Grid. Our program will honor these course equivalencies when receiving students from other institutions, and grant the number of credits equal to our course.

Institution Name NORTH ISLAND COLLEGE
 Program Name DRAFTING CERTIFICATE
 Print Name MICHAEL W. H. THORP
 Signed [Signature] Date Jan 29/10

Architectural CADD – Transfer Grid (as determined at the June 29 2009 BCDTAC Meeting)

TOPIC	TRU Engineering Design	NIC Mech / Arch / Civil	BCIT Architectural Technology	UCFV Architectural CADD	VCC Architectural CADD	VCC Arch / Civil & Structural	Kwantlen Architectural CADD
CADD	ARET 111 & 210 CADD & Advanced CADD	DRT 181 Computer Assisted Drafting - Autocad	BLDG 1405 Architectural CAD 1	ADT 1 Drafting Fundamentals and CAD	DRFT 1101 & 1102 Basic Drafting 1 & 2	DRFT 1101 & 1102 Basic Drafting 1 & 2	CADD 1150 Computer Aided Design & Drafting
Introduction to Architecture	ARET 112 Introduction to Architecture	DRT 110 & 140 Architectural Draft/Materials		ADT 3 Building Construction 1	DRFT 1226 Construction Drawing Reading	DRFT 1226 Construction Drawing Reading	CADD 1110 Summative Project (House)
Drafting/Graphics	ARET 110 Graphical Communications	DRT 100 Introduction to Drafting					CADD 1100 Drafting Fundamentals
Office Software		DRT 185 Office Software for CADD Office					CADD 1160 Office Software and Procedures
Building Information Modeling (BIM)/ 3D		DRT 111 3D Building Information Modeling			DRFT 1252 3D CAD		CADA 1250 Building Information Model Software
Single Family Residential				ADT 5 Final Architectural Project	DRFT 1250 Single Family Residential - Bldg Layout		CADA 1210 Single Family Residential
Architectural Concepts					DRFT 1250 & 1251 Single Family Residential - Bldg Layout	DRFT 1320 Architectural Concepts	CADA 1200 Architectural Fundamentals
Multi-Family Residential					DRFT 1251 Mult- Family Residential - Bldg Layout		CADA 2100 Multi-Family Residential
Commercial					DRFT 1354 Commercial Building		CADA 1220 Commercial Building
Advanced Single Family Residential				ADT 4 Building Construction 2			CADA 1200 & 1210 Arch Fundamentals & Single Family Residential
Civil and Surveying	ARET 140 & 141 Civil Subdivision & Surveying	DRT 100 & 120 Topographic Civil Drafting & Surveying		ADT 7 Civil Drafting and Surveying			

I do hereby agree with the course equivalencies as indicated in the Architectural Transfer Grid. Our program will honor these course equivalencies when receiving students from other institutions, and grant the number of credits equal to our course.

Institution Name VANCOUVER COMMUNITY COLLEGE

Program Name ARCHITECTURAL DRAFTING TECH

Print Name GRAHAM HUCKIN

Signed G. Huckin

Date 7 JAN 2010

Architectural CADD - Transfer Grid (as determined at the June 29 2009 BCDTAC Meeting)

TOPIC	TRU Engineering Design	NIC Mech / Arch / Civil	BCIT Architectural Technology	UCFV Architectural CADD	VCC Architectural CADD	VCC Arch / Civil & Structural	Kwantlen Architectural CADD
CADD	ARET 111 & 210 CADD & Advanced CADD	DRT 181 Computer Assisted Drafting - Autocad	BLDG 1405 Architectural CAD 1	ADT 1 Drafting Fundamentals and CAD	DRFT 1101 & 1102 Basic Drafting 1 & 2	DRFT 1101 & 1102 Basic Drafting 1 & 2	CADD 1150 Computer Aided Design & Drafting
Introduction to Architecture	ARET 112 Introduction to Architecture	DRT 110 & 140 Architectural Draft/Materials		ADT 3 Building Construction 1	DRFT 1226 Construction Drawing Reading	DRFT 1226 Construction Drawing Reading	CADD 1110 Summative Project (House)
Drafting/Graphics	ARET 110 Graphical Communications	DRT 100 Introduction to Drafting					CADD 1100 Drafting Fundamentals
Office Software		DRT 185 Office Software for CADD Office					CADD 1160 Office Software and Procedures
Building Information Modeling (BIM)/ 3D		DRT 111 3D Building Information Modeling			DRFT 1252 3D CAD		CADA 1250 Building Information Model Software
Single Family Residential				ADT 5 Final Architectural Project	DRFT 1250 Single Family Residential - Bldg Layout		CADA 1210 Single Family Residential
Architectural Concepts					DRFT 1250 & 1251 Single Family Residential - Bldg Layout	DRFT 1320 Architectural Concepts	CADA 1200 Architectural Fundamentals
Multi-Family Residential					DRFT 1251 Multi- Family Residential - Bldg Layout		CADA 2100 Multi-Family Residential
Commercial					DRFT 1354 Commercial Building		CADA 1220 Commercial Building
Advanced Single Family Residential				ADT 4 Building Construction 2			CADA 1200 & 1210 Arch Fundamentals & Single Family Residential
Civil and Surveying	ARET 140 & 141 Civil Subdivision & Surveying	DRT 100 & 120 Topographic Civil Drafting & Surveying		ADT 7 Civil Drafting and Surveying			

*

I do hereby agree with the course equivalencies as indicated in the Architectural Transfer Grid. Our program will honor these course

equivalencies when receiving students from other institutions, and grant the

number of credits equal to our course. * With the following proviso:

If there is a recency gap of more than 1 year and/or the final mark is less than 70%, we recommend taking BLDG 1405. As per departmental policy, we reserve the right to deny transfer credits for final marks less than 65% in the "equivalent course"

BCIT

Institution Name

Architectural & Building Engineering Technology

Program Name

Julia Hein, Program Head

Print Name

Julia M. Hein

Signed

Date Dec. 17, 2010

Architectural CADD – Transfer Grid (as determined at the June 29 2009 BCDTAC Meeting)

TOPIC	TRU <i>Engineering</i> <i>ARET Designer</i>	NIC Mech / Arch / Civil	BCIT Architectural Technology	UCFV Architectural CADD	VCC Architectural CADD	VCC Arch / Civil & Structural	Kwantlen Architectural CADD
CADD	ARET 111 & 210 CADD & Advanced CADD	DRT 181 Computer Assisted Drafting - Autocad	BLDG 1405 Architectural CAD 1	ADT 1 Drafting Fundamentals and CAD	DRFT 1101 & 1102 Basic Drafting 1 & 2	DRFT 1101 & 1102 Basic Drafting 1 & 2	CADD 1150 Computer Aided Design & Drafting
Introduction to Architecture	ARET 112 Introduction to Architecture	DRT 110 & 140 Architectural Draft/Materials		ADT 3 Building Construction 1	DRFT 1226 Construction Drawing Reading	DRFT 1226 Construction Drawing Reading	CADD 1110 Summative Project (House)
Drafting/Graphics	ARET 110 Graphical Communications	DRT 100 Introduction to Drafting					CADD 1100 Drafting Fundamentals
Office Software		DRT 185 Office Software for CADD Office					CADD 1160 Office Software and Procedures
Building Information Modelling (BIM) 3D		DRT 111 3D Building Information Modeling			DRFT 1252 3D CAD		CADA 1250 Building Information Model Software
Single Family Residential				ADT 5 Final Architectural Project	DRFT 1250 Single Family Residential - Bldg Layout		CADA 1210 Single Family Residential
Architectural Concepts					DRFT 1250 & 1251 Single Family Residential - Bldg Layout	DRFT 1320 Architectural Concepts	CADA 1200 Architectural Fundamentals
Multi-Family Residential					DRFT 1251 Multi- Family Residential - Bldg Layout		CADA 2100 Multi-Family Residential
Commercial					DRFT 1354 Commercial Building		CADA 1220 Commercial Building
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Civil and Surveying	ARET 140 & 141 Civil Subdivision & Surveying	DRT 100 & 120 Topographic Civil Drafting & Surveying		ADT 7 Civil Drafting and Surveying			

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 number of credits equal to our course.

Institution Name I.R.V.
 Program Name A.R.E.T.
 Print Name JOHN PURESNIC (CHAIR)
 Signed  Date FEB 8 / 2010

Architectural CADD – Transfer Grid (as determined at the June 29 2009 BCDTAC Meeting)

TOPIC	TRU Engineering Design	NIC Mech / Arch / Civil	BCIT Architectural Technology	UCFV Architectural CADD	VCC Architectural CADD	VCC Arch / Civil & Structural	Kwantlen Architectural CADD
CADD	ARET 111 & 210 CADD & Advanced CADD	DRT 181 Computer Assisted Drafting - Autocad	BLDG 1405 Architectural CAD 1	ADT 1 Drafting Fundamentals and CAD	DRFT 1101 & 1102 Basic Drafting 1 & 2	DRFT 1101 & 1102 Basic Drafting 1 & 2	CADD 1150 Computer Aided Design & Drafting
Introduction to Architecture	ARET 112 Introduction to Architecture	DRT 110 & 140 Architectural Draft/Materials		ADT 3 Building Construction 1	DRFT 1226 Construction Drawing Reading	DRFT 1226 Construction Drawing Reading	CADD 1110 Summative Project (House)
Drafting/Graphics	ARET 110 Graphical Communications	DRT 100 Introduction to Drafting					CADD 1100 Drafting Fundamentals
Office Software		DRT 185 Office Software for CADD Office					CADD 1160 Office Software and Procedures
Building Information Modeling (BIM)/ 3D		DRT 111 3D Building Information Modeling			DRFT 1252 3D CAD		CADA 1250 Building Information Model Software
Single Family Residential				ADT 5 Final Architectural Project	DRFT 1250 Single Family Residential - Bldg Layout		CADA 1210 Single Family Residential
Architectural Concepts					DRFT 1250 & 1251 Single Family Residential - Bldg Layout	DRFT 1320 Architectural Concepts	CADA 1200 Architectural Fundamentals
Multi-Family Residential					DRFT 1251 Multit- Family Residential - Bldg Layout		CADA 2100 Multi-Family Residential
Commercial					DRFT 1354 Commercial Building		CADA 1220 Commercial Building
Advanced Single Family Residential				ADT 4 Building Construction 2			CADA 1200 & 1210 Arch Fundamentals & Single Family Residential
Civil and Surveying	ARET 140 & 141 Civil Subdivision & Surveying	DRT 100 & 120 Topographic Civil Drafting & Surveying		ADT 7 Civil Drafting and Surveying			

I do hereby agree with the course equivalencies as indicated in the
 Architectural Transfer Grid. Our program will honor these course
 equivalencies when receiving students from other institutions, and grant the
 number of credits equal to our course.

Institution Name Kwantlen Polytechnic University
 Program Name CADD Technologies
 Print Name Joanne Massey

Signed  Date Dec. 18 2009

Structural CADD -- Transfer Grid (as determined at the June 29 2009 BCDTAC Meeting)

TOPIC	NIC Mech / Arch / Civil	BCIT Structural CADD	VCC Arch / Civil & Structural	VCC Steel Detailing	Kwantlen Architectural CADD
Site Work	DRT 120 Topographic & Civil Detailing		DRFT 1210 Industrial Site Layout		
Civil 3D Modeling	DRT 121 Designing with Civil 3D		DRFT 1211 Alignment Detailing		CADD 2110 Site Work with 3D Software
Concrete			DRFT 1322 Foundation & Ground Floor Systems		CADS 1200 Structural Fundamentals and Concrete
Steel			DRFT 1321 Steel Structures		CADS 1210 Structural Steel
Steel Detailing		ASCT 1140 Steel Detailing		DRFT 1350 Detailing Using Geometry	

I do hereby agree with the course equivalencies as indicated in the Architectural Transfer Grid. Our program will honor these course equivalencies when receiving students from other institutions, and grant the number of credits equal to our course.

Institution Name NORTH ISLAND COLLEGE
 Program Name DRAFTING CERTIFICATE
 Print Name MICHAEL GYHITMONI
 Signed [Signature] Date Jan. 20/10

Structural CADD – Transfer Grid (as determined at the June 29 2009 BCDTAC Meeting)

TOPIC	NIC Mech / Arch / Civil	BCIT Structural CADD	VCC Arch / Civil & Structural	VCC Steel Detailing	Kwantlen Architectural CADD
Site Work	DRT 120 Topographic & Civil Detailing		DRFT 1210 Industrial Site Layout		
Civil 3D Modeling	DRT 121 Designing with Civil 3D		DRFT 1211 Alignment Detailing		CADD 2110 Site Work with 3D Software
Concrete			DRFT 1322 Foundation & Ground Floor Systems		CADS 1200 Structural Fundamentals and Concrete
Steel			DRFT 1321 Steel Structures		CADS 1210 Structural Steel
Steel Detailing		ASCT 1140 Steel Detailing		DRFT 1350 Detailing Using Geometry	

I do hereby agree with the course equivalencies as indicated in the Architectural Transfer Grid. Our program will honor these course equivalencies when receiving students from other institutions, and grant the number of credits equal to our course.

STRUCTURAL *[Signature]*

Institution Name VANCOUVER COMMUNITY COLLEGE
 Program Name ARCHITECTURAL CIVIL STRUCTURAL DRAFTING TECH
 Print Name GRAHAM HUCKIN
 Signed *G Huckin* Date 7 JAN 2010

Structural CADD – Transfer Grid (as determined at the June 29 2009 BCDTAC Meeting)

TOPIC	NIC Mech / Arch / Civil	BCIT Structural CADD	VCC Arch / Civil & Structural	VCC Steel Detailing	Kwantlen Architectural CADD
Site Work	DRT 120 Topographic & Civil Detailing		DRFT 1210 Industrial Site Layout		
Civil 3D Modeling	DRT 121 Designing with Civil 3D		DRFT 1211 Alignment Detailing		CADD 2110 Site Work with 3D Software
Concrete			DRFT 1322 Foundation & Ground Floor Systems		CADS 1200 Structural Fundamentals and Concrete
Steel			DRFT 1321 Steel Structures		CADS 1210 Structural Steel
Steel Detailing		ASCT 1140 Steel Detailing		DRFT 1350 Detailing Using Geometry	

STRUCTURAL

I do hereby agree with the course equivalencies as indicated in the

Architectural Transfer Grid. Our program will honor these course

equivalencies when receiving students from other institutions, and grant the

number of credits equal to our course.

Institution Name BCIT

Program Name STRUCTURAL CADD & GRAPHICS

Print Name ANNA TRAJKOVIC

Signed ATrajkovic Date Dec. 11 '09.

Structural CADD – Transfer Grid (as determined at the June 29 2009 BCDTAC Meeting)

TOPIC	NIC Mech / Arch / Civil	BCIT Structural CADD	VCC Arch / Civil & Structural	VCC Steel Detailing	Kwantlen Architectural CADD
Site Work	DRT 120 Topographic & Civil Detailing		DRFT 1210 Industrial Site Layout		
Civil 3D Modeling	DRT 121 Designing with Civil 3D		DRFT 1211 Alignment Detailing		CADD 2110 Site Work with 3D Software
Concrete			DRFT 1322 Foundation & Ground Floor Systems		CADS 1200 Structural Fundamentals and Concrete
Steel			DRFT 1321 Steel Structures		CADS 1210 Structural Steel
Steel Detailing		ASCT 1140 Steel Detailing		DRFT 1350 Detailing Using Geometry	

I do hereby agree with the course equivalencies as indicated in the Structural Transfer Grid. Our program will honor these course equivalencies when receiving students from other institutions, and grant the number of credits equal to our course.

Institution Name Kwantlen Polytechnic University
 Program Name CADD Technologies
 Print Name Joanne Massey

Signature:  Date: Dec. 18 2009

This Transfer Grid is incomplete - it will be ratified at the June 2010 BCDTAC Meeting

Note: None of the follow matches are finalized. The yellow ones are likely to be correct, the red ones need more information.
 Note: Some matches are only one-way, please read the comments

Course Matches, BCIT and OC:

	BCIT	OC	Comments
Drafting Fundamentals	Mech 1100, 1105	Mech 131	BCIT has many hours but topics covered are the same. Both use
Drafting II	Mech 2201	Mech 142	Credit for BCIT student transferring to OC
Drafting II	Mech 2201	Mech 142, 237	Credit for OC student transferring to BCIT. OC uses Pro/E, BCIT uses Inventor - is this acceptable to BCIT?
3D CAD			Difficulty of Pro/E compared to other software, requirement of Pro/E in Mech 240 makes it difficult to allow others credit for Mech 237
Statics	Mech 1141	Mech 134	Credit for BCIT student transferring to OC
Statics	Mech 1141	Mech 134, 136, 144	Credit for OC student transferring to BCIT
Mechanics/Dynamics	Mech 2241	Mech 136, 144	Credit for OC student transferring to BCIT. Won't work other way because Mech 144 has more topics not covered.
Manufacturing Processes	Mech 1210	Mech 148	
Machine Design	2nd year course	2nd year course	
Fluids	2nd year course		
Materials			OC doesn't do chemistry so no equivalent. Does BCIT do phase diagrams, heat treatment?
Strength of Materials	Mech 2240	Mech 147	
Math 1	Math 1491	Math 135	
Math 2		Math 145	Math 2491 doesn't have statistics.
Physics	Physics 2149	Mech 136, ELEN 236	Credit for OC student transferring to BCIT
Physics	Physics 2149, Mech 2241, 1141, 1120	Mech 136	Credit for BCIT student transferring to OC

Course Matches, Camosun and OC:

	Camosun	OC	Comments
Drafting Fundamentals	ENGR 151M	Mech 131	
Drafting II		Mech 142	Camosun Mech 153 covers some of this but it also combines machine design and 3D in one course. Need more details to
3D CAD			Difficulty of Pro/E compared to other software, requirement of Pro/E in Mech 240 makes it difficult to allow others credit for Mech 237
Statics		Mech 134	Camosun Mech 173 is combined statics and materials. Sufficient coverage? Need more info from Camosun
Mechanics/Dynamics	Mech 175, Phys 191	Mech 136, 144	Credit for OC student transferring to BCIT. Doesn't work the other way because Phys 191 doesn't cover waves, sound, light, optics.
Manufacturing Processes		Mech 148	Need more detail from Camosun re Mech 161A&B
Machine Design	2nd year course	2nd year course	
Fluids		Mech 146	Need more detail from Camosun re Engr 177
Materials	Chem 160?, Mech 173?	Mech 133	Credit for Camosun student transferring to OC. Doesn't work other way because OC has no chemistry. NOTE: only applies if Camosun do lab testing of materials - need more info from Camosun
Strength of Materials	Mech 173, 271	Mech 147	Credit for Camosun student transferring to OC
Strength of Materials	Mech 173, 271	Mech 134, 133, 147	Credit for OC student transferring to Camosun. Covers more than Strength of Materials.
Math 1	Math 185	Math 135	
Math 2	Math 187, 189	Math 145	
Physics	Phys 191,192	Mech 136, ELEN 236	Credit for OC student transferring to Camosun
Physics	Phys 191,192	Mech 136	Credit for Camosun student transferring to OC

Course Matches, Camosun and BCIT:

	Camosun	BCIT	Comments
Drafting Fundamentals	ENGR 151M	Mech 1100, 1105	
Drafting II		Mech 2201	Camosun ENGR 153 is a much broader course. Does it cover enough material?
3D CAD		Mech 2201	Camosun ENGR 153 is a much broader course. Does it cover enough material?
Statics		Mech 1141	Camosun Mech 173 is combined statics and materials. Sufficient coverage? Need more info from Camosun
Mechanics/Dynamics	Mech 175, Phys 191	Mech 2241	
Manufacturing Processes		Mech 1210	Need more detail from Camosun re Mech 161A&B
Machine Design	2nd year course		
Fluids		2nd year course	
Materials	Chem 160, Mech 173		Does BCIT do Phase Diagrams, Alloying, Surface Treatment, & Heat Treatment? Does Camosun do Materials lab tests?
Strength of Materials	Mech 271	Mech 2239	Some differences. Close enough?
Math 1	Math 185	Math 1491	Some differences. Close enough?
Math 2	Math 187, 189	Math 2491	Some differences. Close enough?
Physics	Phys 191,192	Physics 2149, Mech 2241, 1120	Difficult to relate these because topics dealt with in variety of courses. The courses shown are related, but not equivalent to one

Appendix B – Signed Block Transfer Agreements

CADD Transfer Innovations Project

NIC Camosun Block Transfer Agreement

NIC – Michael Whitmore

Camosun – Ross Lyle

Kwantlen Camosun Block Transfer Agreement

Kwantlen – Joanne Massey

Camosun – Ross Lyle

Block Transfer Agreement

Drafting Certificate Program
North Island College

And

Engineering Graphics Technician Certificate Program
Camosun College

Students graduating from Camosun College with a Certificate in Engineering Graphics Technician will be granted 6 credits toward a Certificate in Drafting from North Island College.

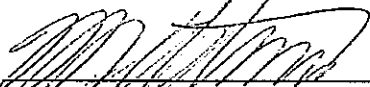
These 6 credits represent completion of

DRT 100 - Introduction to Drafting
DRT 181 - Computer Aided Drafting - Autocad

*FURTHER REFINEMENTS WILL BE
ADDRESSED IN JUNE 2010*

Signatures:

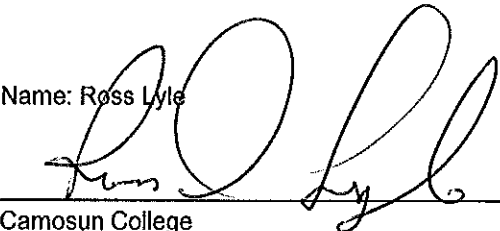
Name: Michael Whitmore



North Island College
Drafting Certificate Program

Date: Jan 23/10

Name: Ross Lyle



Camosun College
Engineering Graphics Technician Certificate Program

Date: Feb 22, 2010

Block Transfer Agreement

CADD Technologies Diploma Program
Kwantlen Polytechnic University

And

Engineering Graphics Technician Certificate Program
Camosun College


Students graduating from Camosun College with a Certificate in Engineering Graphics Technician will be granted 15 credits and a Citation in CADD Technologies from Kwantlen Polytechnic University.

These 15 credits represent completion of:

- CADD 1100 – Drafting Fundamentals (4 cr)
- CADD 1110 – Summative Project (4 cr)
- CADD 1150 – CADD Software (4 cr)
- CADD 1160 – Office Software and Procedures (3 cr)

Signatures:

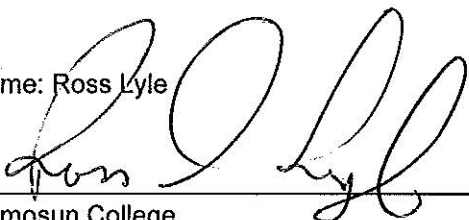
Name: Joanne Massey



Kwantlen Polytechnic University
CADD Technologies Diploma Program

Date: February 5 2010

Name: Ross Lyle



Camosun College
Engineering Graphics Technician Certificate Program

Date: Feb 22, 2010

Appendix C
Drafting Technologies Transfer Innovations Project – Interim Report
July 8, 2009
Prepared by: Joanne Massey
Project Coordinator

Timeline	Activity
January 2009	Sent an announcement to all existing BC Drafting Articulation Committee (BCDTAC) members informing them of the schedule of events for the Transfer Innovations project.
January 2009	Contacted Okanagan College: Quincy DeWitt – Mechanical Engineering Technology Dept Chair Tom Guenther – Civil Engineering Technology Dept Chair Informed them of the Transfer Innovations project, and invited them to the June 2009 BCDTAC meeting. They both agreed to attend
March 2009	Arranged to have the BCDTAC June 2009 meeting moved from Camosun to the Lower Mainland (Kwantlen) to ensure a good attendance
March – April 2009	Collected courses and outcomes Compiled initial Program Grid of all CADD related programs and courses in BC Institutions Determined that the most effective Transfer Grid would include programs in the following areas: Architectural Civil Mechanical Structural
May 2009	Contacted BCIT Paul Morrison - Mechanical Engineering Technology Assoc. Dean Julia Hein – Architectural and Building Technology Dept Chair Paul Thurston - Civil Engineering Dept Chair Darryl Mack – Enrollment Planning (invited as a guest) Informed them of the Transfer Innovations project, and invited them to the June 2009 BCDTAC meeting. Paul Thurston asked for their Civil Engineering program to be removed from the Transfer Grid due to current accreditation process with the Canadian Engineering Accreditation Board. Julia Hein indicated that she would be on vacation, but that she would try to find a delegate to attend. Paul Rodham agreed to attend.

- May 2009 Paul Morrison agreed to attend.
Sent out initial Program Grid of all CADD related programs and courses in BC Institutions to all institutions attending the June 2009 BCDTAC meeting
- June 1 2009 Sent out Transfer Grid sorted by categories and topics.
(actual document that would be discussed and finalized at the June 2009 BCDTAC meeting)
- June 29 & 30 2009 **BCDTAC Annual Meeting** - Kwantlen Polytechnic University
(see BCDTAC June 2009 Minutes of Meeting included in this report)

Transfer Grid

Broke into discipline groups to discuss and establish Transfer in each discipline area:

Architectural
*Civil/Structural
Mechanical

*Okanagan College Civil Dept Chair did not attend. With the BCIT Civil program having been removed from the Transfer Grid, that left only Camosun on the Grid with a Civil program. There was no articulation carried out for Civil. The Civil/Structural group worked on Structural Transfer only. We plan to included the two Civil programs in the annual review of the Transfer Grid at the BCDTAC 2010 meeting, and add it to the Transfer Grid if appropriate.

Block Transfer:

After careful scrutiny of the Transfer Grid it was determined that 2 Block Transfer agreements could be facilitated:

- 1) Camosun Engineering Graphics Technician Certificate will receive credit for Kwantlen's CADD Citation
- 2) Camosun Engineering Graphics Technician Certificate will receive credit for North Island College Drafting – first semester

Institutional Responsibility:

Members were informed that the Registrar's office at each institution must be given written notification of these transfer agreements. A contact list of BCCAT representatives for each institution was given to members

- July 2009 Interim Report submitted
Transfer Grids by discipline, edited as per articulation discussion, will be submitted to Joanne Massey by Sept 15 2009
Transfer Grids will be put into a format suitable for BCCAT website
Block Transfer agreements will be written up

Appendix D – CADD Transfer Innovations Project

Excerpt from:

British Columbia Drafting Technologies Articulation Meeting
Minutes from Monday/Tuesday, June 29 & 30, 2009
Kwantlen Polytechnic University – Cloverdale Campus
5500 – 180th St., Surrey, B.C. Room 2112

Present:

Graham Huckin, Chair	Vancouver Community College (VCC)
Joanne Massey, Co-chair	Kwantlen Polytechnic University
Larry Gritzmaker	University of the Fraser Valley (UFV)
Gabriella Ohlhauser	Vancouver Community College (VCC)
Mike Whitmore	North Island College (NIC)
Paul Rodham	BC Institute of Technology (BCIT)
Anna Trajkovic	BC Institute of Technology (BCIT)
Darryl Mack	BC Institute of Technology (BCIT)
Ross Lyle	Camosun College (CC)
Quincy DeWitt	Okanogan University College
Paul Morrison	BC Institute of Technology (BCIT)
Christina Heinrick, Minutes	Kwantlen Polytechnic University

Introduction to Transfer Grid Project – Joanne Massey (Kwantlen Polytechnic University) (see Appendix B)

Why? We all are threaded to each other through CADD regardless of what drafting programs we teach. There are new members and faculty amongst the various institutions.

Course Comparison: Programs (and courses) are sorted by topic area on Master Matrix. To approve transfer credit between courses, it is required that there is a minimum of 80% commonality.

Goals of two day meeting:

1. For each discipline to agree on transfer grid and process at least the first year of courses.
2. To observe and possibly make agreements on some block transfers.
3. Articulate transfer of “Uncategorized” courses.
4. Establish a procedure to annually review and update both transfer agreements.
5. Sign up for Moodle site.
6. Establish a chart to identify similarities and differences.

Note: Block transfer is defined as “the process whereby a block of credits is granted to students who have successfully completed a certificate, diploma or cluster of courses that are recognized as having educational wholeness or integrity and that can be related meaningfully to another credential program.”

Each committee member at each institution will be responsible for sending articulated agreements to their respective registrar’s office (see Appendix C, contact list included in meeting package).

Articulation Activity:

Members broke into discipline groups to discuss and finalize Transfer Grid for each area.

Architectural

Christina Heinrick, Michael Whitmore, Paul Rodham, Gabriella Olhauser, Larry Gritzmaker

Civil / Structural

Graham Huckin, Anna Trajkovic, Joanne Massey

Mechanical

Ross Lyle, Paul Morrison, Quincy DeWitt

Members reconvened after establishing Transfer Grid for each area:

Determined which grid format to submit to BCCAT

Determined that the Transfer Grids would be reviewed and updated every year at the annual BCDTAC meeting

Members were informed that the Registrar's office at each institution must be given written notification of these transfer agreements. A contact list of BCCAT representatives for each institution was given to members (see Appendix C)

Suggestion to include sample project work to help facilitate outcome understandings during follow up review and updates sessions of the articulation and transfer credit agreements.

An interim report to be sent to BCCAT by Joanne Massey in the next week (see Appendix D)

One member from each discipline group volunteered to edit the Transfer Grid to reflect the outcome of the break-out session.

Architectural - Christina Heinrick

Civil / Structural – Joanne Massey

Mechanical - Quincy DeWitt

Edited Transfer Grids will be returned to Joanne Massey by **September 15 2009**.

Day 2 – Tuesday, June 30, 2009

Chair, Graham Huckin called meeting to order at 9:10am.

Present:

Graham Huckin, Chair	Vancouver Community College (VCC)
Joanne Massey, Host	Kwantlen Polytechnic University
Larry Gritzmaker	University of the Fraser Valley (UFV)
Gabriella Ohlhauser	Vancouver Community College (VCC)
Mike Whitmore	North Island College (NIC)
Ross Lyle	Camosun College (CC)
Quincy DeWitt	Okanogan University College
Christina Heinrick	Kwantlen Polytechnic University

Block Transfer Agreements

After careful scrutiny of the Transfer Grid on the previous day, it was determined that 2 Block Transfer agreements could be facilitated:

- 1) Camosun Engineering Graphics Technician Certificate will receive credit for Kwantlen's CADD Citation
- 2) Camosun Engineering Graphics Technician Certificate will receive credit for North Island College Drafting – first semester of a two-semester Certificate.

APPENDIX E CADD Transfer Innovations Project - Participating Programs

CADD Certificate - 1 Year							
1st Semester		1st Semester		1st Semester		1st Semester	
NIC 40 Weeks Mech / Arch / Civil	UCFV 40 Weeks Architectural	BCIT 40 Weeks Architectural	BCIT 40 Weeks Structural	VCC 40 Weeks Architectural	VCC 40 Weeks Arch / Civil & Structural	VCC 40 Weeks Steel Detailing	Camosun 2 Semesters Eng. Graph. Technician
DRT 100 Introduction to Drafting	ADT 1 Drafting Fundamentals and CAD	ASCT 1010 Introductory Graphics	ASCT 1010 Introductory Graphics	DRFT 1101 Basic Drafting 1	DRFT 1101 Basic Drafting 1	DRFT 1101 Basic Drafting 1	ENGL 170 Tech Profess Communications 1
DRT 181 Computer Assisted Drafting - Autocad		ASCT 1020 Introduction to CADD Drafting	ASCT 1020 Introduction to CADD Drafting	DRFT 1102 Basic Drafting 2	DRFT 1102 Basic Drafting 2	DRFT 1102 Basic Drafting 2	ENGR 151M Engineering Drawing 1 - 2D CAD
DRT 140 Materials of Construction	ADT 2 Applied Mathematics	ASCT 1050 Introduction to Drafting Mathematics	ASCT 1050 Introduction to Drafting Mathematics				ENGR 152 Technical Publishing Applications
DRT 159 Technical Writing		ASCT 1200 Planning and Urban Design	ASCT 1200 Planning and Urban Design				ENGR 158 Applications in Computing
DRT 185 Office Software for Drafting Technologies		ASCT 1210 Computer Applications for Architecture	ASCT 1120 Structural Steel Design and Detailing				ENGR 178 Commercial Practices 1
		ASCT 1220 Design and Construction Documents	ASCT 1130 Reinforced Concrete Structures				
		ASCT 1230 Architectural Theory and History	ASCT 1140 Steel Construction				
2nd Semester		2nd Semester		2nd Semester		2nd Semester	
DRT 110 Architectural Drafting	ADT 3 Building Construction 1	ASCT 1240 Architectural Graphics	ASCT 1150 Wood Frame Construction	DRFT 1250 Single Family Residential - Bldg Layout	DRFT 1226 Construction Drawing Reading	DRFT 1230 Steel Properties and Fabrication	ENGR 154 Design Visualization
DRT 120 Topographic & Civil Drafting	ADT 6 Introduction to Structures	ASCT 1245 Introduction to Architectural 3D Modeling	ASCT 1160 Presentations and Communications	DRFT 1251 Multi-Family Residential - Bldg Layout	DRFT 1320 Architectural Concepts	DRFT 1231 Square Framing	ENGR 188 Commercial Practices 2
DRT 111 3D Building Information Modeling	ADT 7 Civil Drafting and Surveying	ASCT 1250 Codes and Regulations	ASCT 1170 Computer Aided Design	DRFT 1226 Construction Drawing Reading	DRFT 1210 Industrial Site Layout	DRFT 1232 Applied Geometry	ENGR 189 CAD Projects
	CMNS 145 Technical Communications for Drafting	ASCT 1260 Construction Materials and Assemblies	ASCT 1354 Commercial/Office Layouts	DRFT 1211 Alignment Detailing	DRFT 1211 Alignment Detailing	DRFT 1359 3D Detailing Software	ENGR 198 Technical Specifications
		ASCT 1270 Building Construction		DRFT 1212 Marine Facilities	DRFT 1326 Job Search Skills		MECH 153 Mechanical Components & 3D CAD
							ENGR 199 Engineering Graphics Practicum
3rd Semester		3rd Semester		3rd Semester		3rd Semester	
DRT 121 Designing with Civil 3D	ADT 4 Building Construction 2	ASCT 1280 Project Management and Controls	ASCT 1180 Structural Graphics	DRFT 1321 Steel Structures	DRFT 1350 Detailing Using Geometry		
DRT 100 Practical Surveying	ADT 5 Final Architectural Project	ASCT 1290 Presentations and Communications	ASCT 1190 Mechanics of Materials	DRFT 1322 Foundation and Ground Floor Systems	DRFT 1351 Heavy Steel Framing		
		ASCT 1295 Professional Practice	ASCT 1195 Building Code	DRFT 1323 Concrete Building Components	DRFT 1352 Steel Trusses		
				DRFT 1325 Virtual Civil/Structural Draft. Office	DRFT 1353 Virtual Steel Detailing Office		
				DRFT 1326 Job Search Skills	DRFT 1326 Job Search Skills		

APPENDIX F CADD Transfer Innovations Project – Participating Programs

CADD Diploma - 2 Years			
Kwantlen 4 Semesters Architectural	Kwantlen 4 Semesters Structural	Kwantlen 4 Semesters Civil	Kwantlen 4 Semesters Manufacturing
1st Semester	1st Semester	1st Semester	1st Semester
CADD 1100 Drafting Fundamentals	CADD 1100 Drafting Fundamentals	CADD 1100 Drafting Fundamentals	CADD 1100 Drafting Fundamentals
CADD 1150 Computer Aided Design & Drafting	CADD 1150 Computer Aided Design & Drafting	CADD 1150 Computer Aided Design & Drafting	CADD 1150 Computer Aided Design & Drafting
CADD 1110 Summative Project (House) and Procedures	CADD 1110 Summative Project (House) and Procedures	CADD 1110 Summative Project (House) and Procedures	CADD 1110 Summative Project (House) and Procedures
CADD 1160 Office Software and Procedures	CADD 1160 Office Software and Procedures	CADD 1160 Office Software and Procedures	CADD 1160 Office Software and Procedures
2nd Semester	2nd Semester	2nd Semester	2nd Semester
CADA 1200 Architectural Fundamentals	CADS 1200 Structural Fundamentals & Steel	CADC 1200 Civil and Surveying Fundamentals	CADM 1200 Manuf & Fabrication Fundamentals
CADA 1210 Single Family Residential	CADS 1210 Structural Concrete	CADC 1210 Land Development Subdivision	CADM 1210 Component Assy & Details
CADA 1220 Commercial Building	CADS 1220 Timber and Wood Framing	CADC 1220 Transportation	CADM 1220 Integrated Machine Design
CADA 1250 Building Information Model Software	CADS 1250 Building Information Model Software	CADC 1250 Land Development Software	CADM 1250 3D Parametric Modeling Software
3rd Semester	3rd Semester	3rd Semester	3rd Semester
CADA 2100 Multi-Family Residential	CADS 2100 Site Work	CADC 2100 Civil Design Principles	CADM 2100 Tool & Die Design
CADA 2150 Building Information Modeling Project	CADS 2150 Building Information Modeling Project	CADC 2150 Civil Design Software	CADM 2150 Advanced 3D Parametric Software
CMNS 1115 Writing for Specialized Workplace	CMNS 1115 Writing for Specialized Workplace	CMNS 1115 Writing for Specialized Workplace	CMNS 1115 Writing for Specialized Workplace
CADD 2160 Professional Practice	CADD 2160 Professional Practice	CADD 2160 Professional Practice	CADD 2160 Professional Practice
ENGQ 1099 Writing Skills with Reading	ENGQ 1099 Writing Skills with Reading	ENGQ 1099 Writing Skills with Reading	ENGQ 1099 Writing Skills with Reading
4th Semester	4th Semester	4th Semester	4th Semester
CADA 2200 Multi-Use Complex	CADS 2200 Pre-fab Prestress Concrete	CADC 2200 GIS	CADM 2200 CNC Design
CADA 2250 Architectural Rendering and Presentation	CADS 2250 Steel Detailing 3D software	CADC 2250 GIS Software	CADM 2250 CNC Software
MATH 1112 Math 12	MATH 1112 Math 12	MATH 1112 Math 12	MATH 1112 Math 12
CADD 2260 Professional Practice 2	CADD 2260 Professional Practice 2	CADD 2260 Professional Practice 2	CADD 2260 Professional Practice 2
PHYS 1100 Physics 12	PHYS 1100 Physics 12	PHYS 1100 Physics 12	PHYS 1100 Physics 12

