

Items approved by Education Council October 5, 2017

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Science Technology and Health Programs

MATH 127 – 3 – 4 Math for Network and Telecommunications Engineering Technology I

Course revision:

- Title – new course title to ***Math for Network and Telecommunications Engineering Technology***
- Description

Rationale:

NTEN has made program revisions that require changes to the name and calendar description of their mathematics course. In particular, the NTEN program has removed the second mathematics course from their program (hence, we don't need to call the course Math for NTEN I but rather Math for NTEN). Removing the second mathematics course also requires that we change the calendar description to remove reference to the second mathematics course. The current calendar description hides most of the content umbrella of Math 127 is a "calculus-prep" class. The revised description is clearer about the content being taught.

Calendar description:

Current:

MATH 127 provides NTEN students with the basic mathematical concepts and techniques useful in their program, and prepares them for the introductory calculus course to be taken in their second semester. The topics covered in the course are: the real number system; numerical computation and calculator use; algebra; solution of various types of equations; functions and graphs; binary, octal and hexadecimal conversions; exponentials and logarithms; and elementary trigonometry. Students with credit for MATH 137 cannot take MATH 127 for additional credit. (4,0,0)

Proposed:

This course provides NTEN students with the basic problem solving strategies and techniques using various mathematical tools found in algebra, coding theory, graph theory, logic, number theory, and set theory. The topics also include binary, octal and hexadecimal systems and subnetting. (4,0,0)

Implementation date: September 2017

Costs: n/a

Network and Telecommunications Engineering Technology Diploma

Program revision:

- Program outline

Rationale:

Update the math course title, there is only one math course in the program. This is the only change

Program tables:

Existing		Proposed	
MATH 127	Math for Network and Telecom Engineering Tech I	MATH 127	Math for Network and Telecom Engineering Tech

Implementation date: September 2017

Costs:

HSW 100 – 3 – 3 Professional Skills for Human Service Work

Rationale:

Historically, students had an option of taking *either* HSW 123 *or* SOCW 200A to meet program requirements and both have similar learning outcomes. However, SOCW200A is also a university transfer course and more students have been taking this course to enable better transferability to university programs. An increasing need for a concentrated focus on applied professionalism skills and values, professional communication, objective report writing and self-care strategies was identified in the last Tier III review therefore a new course, HSW 100 will replace HSW 123.

Calendar description:

In this course students explore human service work practice through the introduction of the values, ethics and processes that form the foundation for professional practice. Students develop and demonstrate an understanding of professional conduct in practice settings. Topics covered include professional values, ethics, conducts and boundaries, objective report writing and strategies for self-care.

Prerequisites: Admission to the HSW program

Implementation date: September 2018

Costs: Library (one-time) \$1500.00

HSW 106 – 1.5 – 1.5 Practicum Preparation I

Course revision:

- Prerequisites

Rationale:

Historically, students had an option of taking either HSW 123 or SOCW 200A to meet program requirements and both have similar learning outcomes. However, SOCW200A is also a university transfer course and more students have been taking this course to enable better transferability to university programs. An increasing need for a concentrated focus on applied professionalism skills and values, professional communication, objective report writing and self-care strategies was identified in the last Tier III review therefore a new course, HSW 100 will replace HSW 123.

Prerequisites/Corequisites:

	Current	Proposed
Prerequisites	HSW 111, HSW 114 and HSW 123 or SOCW 200A with a minimum grade of 50 or permission of the department.	HSW 111, HSW 114, SOCW 200A with a minimum grade of 50

Implementation date: September 2018

Costs: n/a

Human Service Work Diploma

Program revision:

- Addition of courses
- Graduation requirements

- Program outline

Rationale:

Historically, students had an option of taking *either* HSW 123 or SOCW 200A to meet program requirements and both have similar learning outcomes. However, SOCW200A is also a university transfer course and more students have been taking this course to enable better transferability to university programs. An increasing need for a concentrated focus on applied professionalism skills and values, professional communication, objective report writing and self-care strategies was identified in the last Tier III review therefore a new course, HSW 100 will replace HSW 123.

Graduation requirements:

Current:

HSW 102, HSW 106, HSW 107, HSW 108, HSW 111, HSW 114, HSW 122, HSW 123 or SOCW 200A; HSW 124, HSW 130, HSW 205, HSW 206, HSW 210, HSW 211, HSW 220, HSW 230; SOCW 200B; ENGL 100, ENGL 150 or ENGL 151; PSYC 111, PSYC 121, PSYC 220; Plus 3 UT Electives (9 credits)

Proposed:

HSW 100, HSW 102, HSW 106, HSW 107, HSW 108, HSW 111, HSW 114, HSW 122; SOCW 200A; HSW 124, HSW 130, HSW 205, HSW 206, HSW 210, HSW 211, HSW 220, HSW 230; SOCW 200B; ENGL100, 1ENGL 150 or ENGL 151; PSYC 111, PSYC 121, PSYC 220; 2 UT Electives (6 credits)

Reason:

SOCW 200A will become a mandatory course and HSW 123 will be removed from the offerings. HSW 100 will be added as a new additional core mandatory 3 credit course. This addition necessitates the removal of one 3 credit elective course.

Implementation date: September 2018

Costs: included in HSW 100 course information

Trades and Apprenticeship Programs

Collision Repair and Refinishing Diploma

Rationale:

Currently in the Automotive Collision Repair Industry, the average age of an Automotive Collision Technician is 54 years, individuals entering the trade to replace those technicians is at an all-time low. Added to this a growing demand for individuals to fill office roles that were once traditionally occupied from technicians wanting to make a career move or perhaps start their own business. In the Automotive industry vehicles are rapidly becoming more complex to repair, and more than ever technicians are required to be educated on vehicle repair procedures and shop operations at a much broader range than that of a first year apprentice. The Collision Repair and Refinishing Diploma program is intended to provide that level of Collision Repair training to both international and domestic students, from which they will be educated with theories, and practical skills of current vehicle repair procedures and business functions. The program will fully prepare the students for the Automotive Collision Repair Industry by providing students with automotive collision, refinishing, estimating, business management and glass repair skills.

Calendar description:

This two-year diploma program is designed for both international and Canadian students who wish to obtain employment in the automotive industry as an Automotive Collision Repair Technician, Refinishing Preparation Technician or Auto Glass Technician. The program begins by providing the student with the first year of apprenticeship training followed by second year courses that focus on industry required skills in estimating, office management and entrepreneurship.

This unique program provides training in four technical areas which include automotive refinishing

preparation, automotive refinishing, automotive collision repair and auto glass repair and replacement. Each of these areas will be covered providing the graduate with completion of four modules of level one technical training. Upon successful completion of the technical training, students will be eligible to write the provincial Industry Training Authority standardized examinations.

Admission requirements:

- B.C. secondary school graduation, or equivalent, or 19 years of age and out of secondary school for at least one year as of the first day of classes.
- English 11 with minimum 50% or equivalent or an IELTS 6.0 (no band less than 5.5) or TOEFL 60.
- A minimum 50% in one of:
 Mathematics Grade 10
 Foundations of Mathematics and Pre-calculus Grade 10
 Both Adult Basic Education Math 071/072
 Or a minimum of 50% in the ABLE mathematics test.
- Relevant trades experience may be assessed for entry into this program.
- Year Two entry - A student who has successfully completed the Collision Repair/Refinishing Prep Technician Foundation Program within the previous five years is also eligible for admittance into the second year of this diploma program.

Residency requirements:

This program must be completed in its entirety at Okanagan College.

Graduation requirements:

Graduates must complete the 22 courses with a minimum passing grade of 60% in each course. Students must achieve an overall average grade of 70% in each year.

Graduates receive an Okanagan College Collision Repair and Refinishing Diploma

Courses/hours:

Course #	Course Name	Course Hours
Year 1		
CRRD 110	Workplace Safety	30
CRRD 115	Tools and Equipment	60
CRRD 120	Collision Facility Operations	30
CRRD 125	Essential Trade Skills	60
CRRD 130	Cutting and Heating Technologies	30
CRRD 135	Welding	120
CRRD 140	Fundamentals of Collision Repair	150
CRRD 145	Sheet Metal/Aluminum Repair	150
CRRD 150	Plastics and Composite Repair	60
CRRD 155	Surface Preparation	150
CRRD 160	Undercoats	60
Year 2		
CRRD 210	Plan Work	30
CRRD 215	Trade Practice	60
CRRD 220	Topcoats	150
CRRD 225	Paint Problems and Repairs	30
CRRD 230	Pre-Delivery	60
CRRD 235	Mechanical Components	90
CRRD 240	Automotive Glass	120
CRRD 245	Shop Management and Estimating	90
CRRD 250	Collision Impact Analysis	120

CRRD 255	Advanced Repair Techniques	120
CRRD 260	Preparation for Employment	30
Total Hours		1800

Year One

CRRD 110 WORKPLACE SAFETY

Throughout this course students use safe workshop practices relating to the automotive collision repair industry such as shop safety procedures, workplace hazardous materials information systems (whmis), fire prevention, personal protective equipment, emergency procedures and hazardous materials disposal.

CRRD 115 TOOLS AND EQUIPMENT

In this course students will learn the proper selection, maintenance, and safe operation of automotive collision repair tools and equipment. Covered material includes hand and power tools, compressors, spray guns, spray booths, and vehicle lifting equipment.

Prerequisites: CRRD 110

CRRD 120 COLLISION FACILITY OPERATIONS

This course covers the different types of repair facilities and the various tasks performed in repairing a vehicle with damage. Topics include estimate types, deciphering vehicle identification plates, shop terminology and the use of computers and the internet as they apply to the collision repair industry

CRRD 125 ESSENTIAL TRADE SKILLS

This course introduces learners to vocabulary and pronunciation specific to the automotive collision industry. It also provides the opportunity to practice more complex language and communication skills required for teamwork and professionalism such as problem-solving and conflict resolution. Using an experiential learning approach with focus on role-rehearsals and coaching, this course will provide learners with the opportunity to work independently and in a cooperative team environment. Learners will practice mathematical calculations for completing work orders, invoices and mixing ratios and develop a basic understanding of mechanical forces.

Prerequisites: CRRD 115

CRRD 130 CUTTING AND HEATING TECHNOLOGIES

This course introduces the student to various types of equipment used and the methods of cutting and heating metal and aluminum substrates found on today's vehicles. Technologies included are oxy-acetylene, plasma arc, and induction heating.

Prerequisites: CRRD 115

CRRD 135 WELDING

This course covers mig welding equipment used for butt, lap, and plug welding techniques on all gauges and types of automotive steels and aluminum. Other topics include mig brazing, out of position welding and reference to oem welding standards for certification.

Prerequisites: CRRD 115

CRRD 140 FUNDAMENTALS OF COLLISION REPAIR

This course involves the identification of various body structures and their components, as well as bolt on panel replacement and alignment techniques. It also includes vehicle parts and trim identification, removal, replacement and an in depth lesson on fastener technology.

Prerequisites: 115

CRRD 145 SHEET METAL/ALUMINUM REPAIR

This course introduces students to the properties and characteristics of sheet metal and aluminum, the tools and equipment used for repair, and the methods for patching, roughing, and applying plastic body fillers to damaged areas.

Prerequisites: CRRD 115

CRRD 150 PLASTICS AND COMPOSITE REPAIR

This course involves the repair and replacement of multiple types of plastics found on today's modern vehicles. Topics include means of identification, plastic welding, adhesive repair using the latest materials and techniques found in industry.

Prerequisites: CRRD 115

CRRD 155 SURFACE PREPARATION

This course exposes students to the various steps involved in preparing a vehicle surface for the refinishing process. Substrate evaluation, abrasives, masking, specialized tools and sanding techniques are covered in this course.

Prerequisites: CRRD 115

CRRD 160 UNDERCOATS

During this course students identify the four types of undercoats, correct mixing procedures and application sequence and methods. Other topics included are corrosion protection, seam sealing, and application of anti-corrosion compounds used in the automotive refinishing industry.

Prerequisites: CRRD 115

Year Two

CRRD 210 PLAN WORK

This course introduces students to the different stages of inspection prior to and during the repair process that contributes to the estimate and organization of a production schedule. Other topics include painter specific documentation, software, inventory and new repair material technologies.

Prerequisites: Successful completion of year one of the Collision Repair and Refinishing Diploma

CRRD 215 TRADE PRACTICE

During this course students enter an industry body shop for a two-week work experience period. Students are working side by side with a certified journey person. focus will be on occupational health and safety standards, tools and equipment, spray guns, oxyacetylene and metal inert gas (mig) welding, removal and installation of vehicle components, sheet metal repair, plastic and composite repairs, surface preparation, and application of undercoats.

Prerequisites: Successful completion of year one of the Collision Repair and Refinishing Diploma

CRRD 220 TOPCOATS

This course exposes the student to the various types, proper use, and application techniques of automotive topcoats used in the refinishing process. Included topics are spot repairs, blending, and color match adjustments.

Prerequisites: Successful completion of year one of the Collision Repair and Refinishing Diploma

CRRD 225 PAINT PROBLEMS AND REPAIRS

During this course students identify topcoat conditions, potential paint damage, correct repair procedures and recognize and identify the various causes of refinishing problems.

Prerequisites: successful completion of year one of the Collision Repair and Refinishing Diploma

CRRD 230 PRE-DELIVERY

This course introduces students to the steps and techniques in preparing a refinished vehicle for delivery to the customer. Topics include polishing processes, exterior vehicle cleaning, interior vehicle cleaning, over spray removal and decal, trim, stripe applications.

Prerequisites: successful completion of year one of the Collision Repair and Refinishing Diploma

CRRD 235 MECHANICAL COMPONENTS

This course gives the student the ability to service components related to the heating, cooling and air condition system. Topics will include evacuation and recharging of a/c, basic electrical wiring, restraints, drive train, and scan tool devices used to diagnose fault codes.

Prerequisites: Successful completion of year one of the Collision Repair and Refinishing Diploma

CRRD 240 AUTOMOTIVE GLASS

Students identify specialty tools, protective equipment, vehicle paint conditions, and specialty glass features while removing and installing various types of automotive glass. Students will also learn windshield chip repair and glass troubleshooting procedures.

Prerequisites: Successful completion of year one of the Collision Repair and Refinishing Diploma

CRRD 245 SHOP MANAGEMENT AND ESTIMATING

This course describes the business practices of today's body shop. Entrepreneurship and customer relations as well as computer-based and manual estimating practices are covered in depth.

CRRD 250 COLLISION IMPACT ANALYSIS

This course introduces the student to the various forces present during a collision. Topics covered include inertial damage to the body/frame structure, mechanical and interior components. Topics included are damage conditions, basic measuring tools and the use of computer based measurement programs.

Prerequisites: CRRD 125

CRRD 255 ADVANCED REPAIR TECHNIQUES

This course covers the full or partial replacement of exterior and structural panels on unitized vehicles. Panel bonding and strsw are introduced in this course as well. Oem repair procedures are covered in depth throughout this component of training.

Prerequisites: CRRD 110

CRRD 260 PREPARE FOR EMPLOYMENT

This course prepares the student for the challenge of securing employment. Interpersonal skills, resume writing and job searching tools are topics covered.

Prerequisites: CRRD 115

Tuition:

Domestic	12466.44
International	30053.04

Costs:

	One-time	Ongoing
Introduction	500.00	200.00
Equipment and Supplies	8,000.00	27,000.00
Library	1500.00	450.00
Staffing	15,273.75	118,3120.24
Other costs (renovating, etc)		500.00
Total estimated costs	25,273.75	146,470.24

Candidates for Graduation approved – October 5, 2017 Education Council Meeting

Program	# of Student
Accounting Assistant Certificate (end date July 23, 2017)	1
Business Administration Diploma (end date August 15, 2017)	1
Business Studies Certificate (end date August 8, 2015)	1
Business Studies Certificate (end date August 15, 2017)	1
Carpenter and Joiner Foundation Certificate (February 6 – September 1, 2017)	14
Culinary Arts Certificate (February 9, 2016 – February 3, 2017)	1
English for Academic Purposes Certificate (end date December 23, 2015)	1
English for Academic Purposes Certificate (end date December 21, 2016)	1
Total	21