

## Distance Education Course Outline Summary

### GENERAL INFORMATION:

- i. *Course:* Workplace and Apprenticeship Math 20, 2017-2018
- ii. *Type:* online delivery, asynchronous, self-paced
- iii. *Instructor:* Janice Cruise (Distance Education Learning Centre)
- iv. *Teacher Access:* \* Moodle Message preferred, email [janice.cruise@horizonsd.ca](mailto:janice.cruise@horizonsd.ca), confidential voice messages can be left at 306.667.3756

### COURSE DESCRIPTION:

- i. This course combines and rearranges the eleven Learning Outcomes (LOs) as outlined in the Saskatchewan Curriculum to develop five broad themes named below (see student assessment). Each LO is weighted (through assignments, quizzes and activities in the course) between 6% and 7%.
- ii. Workplace & Apprenticeship Math 10

### STUDENT LEARNING OUTCOMES:

- i. Expand and apply understanding of the preservation of equality including solving problems that involve the manipulation and application of formulae for volume, capacity, surface area, slope and rate of change, simple interest, and finance charges
- ii. Demonstrate the ability to analyze puzzles and games that involve numerical reasoning and problem solving strategies
- iii. Extend and apply understanding of surface area, volume, and capacity using concrete and pictorial models and symbolic representations
- iv. Solve problems that involve at least two right triangles
- v. Extend and apply understanding of 3-D objects
- vi. Demonstrate understanding of personal budgets and their importance for financial planning
- vii. Demonstrate understanding of compound interest
- viii. Demonstrate understanding of financial institution services used to access and manage personal finances, including credit options
- ix. Demonstrate concretely, pictorially, and symbolically (with and without the use of technology) an understanding of slope
- x. Extend and apply proportional thinking to solve problems that involve unit analysis and scale
- xi. Extend and apply understanding of representing data using graphs

### TEACHING STRATEGIES:

- i. The course has eleven Learning Outcomes (LO). LO1 and 2 are addressed throughout the course.
- ii. It is expected that students will spend 5-8 hours completing the work involved in each Learning Outcome.
- iii. All assignments, discussions, choice decisions, and quizzes must be submitted prior to writing the Final Exam. Assignments are completed throughout the course to demonstrate understanding of the content areas.
- iv. While there are no set assignment due dates, continuous participation and progress are expected.
- v. Specific requirements of each Learning Outcome (LO) are provided in Moodle.
- vi. A Final Exam (closed-book) needs to be arranged mutually between the student, the home school (as supervision is required), and the course Instructor.

### COURSE MATERIALS:

- i. All required course resources are provided within Moodle, or are available on the Internet.
- ii. Students require access to a computer, scanner, web-browser, Microsoft Office (or equivalent), the Internet, geometry set and graph paper. A smart phone camera would be useful (but is not required).



Phone: 1-306-682-2558  
Toll free: 1-866-966-2558  
Fax: 1-306-682-5154  
10333 - 8<sup>th</sup> Avenue  
Post Office Box: 40  
Humboldt Saskatchewan  
Postal Code: S0K-2A0

STUDENT ASSESSMENT:

<b>A. Think it Through!</b> (includes part/all of LOs 1 & 2)	Marked out of 7%
<b>B. Graphically Speaking</b> (includes part/all of LOs 1, 9, and 11)	Marked out of 15%
<b>C. How does it Measure Up?</b> (includes part/all of LOs 1, 3, and 10)	Marked out of 15%
<b>D. Money Matters</b> (includes part/all of LOs 1,6,7, and 8)	Marked out of 23%
<b>E. Shaping Up</b> (includes part/all of LOs 4, 5, and 10)	Marked out of 15%
<b>Final Exam</b>	25%
<b>TOTAL</b>	100%