

Distance Education Course Outline Summary

GENERAL INFORMATION:

- i. *Course:* Workplace and Apprenticeship Math 10, 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, 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. Math 9

STUDENT LEARNING OUTCOMES:

- i. Demonstrate understanding of the preservation of equality including solving problems that involve the manipulation and application of formulas.
- ii. Analyze puzzles and games that involve spatial reasoning using problem solving strategies
- iii. Demonstrate using concrete, and pictorial models, and symbolic representations, understanding of measurement systems
- iv. Demonstrate, using concrete, and pictorial models, and symbolic representations, understanding of linear measurement, including units in the SI and Imperial systems of measurement
- v. Demonstrate, using concrete, and pictorial models, and symbolic representations, understanding of area of 2-D shapes and surface area of 3-D objects including units in SI and Imperial systems of measurement
- vi. Apply understanding of the Pythagorean Theorem to solve problems
- vii. Demonstrate understanding of similarity of convex polygons, including regular and irregular polygons
- viii. Demonstrate an understanding of primary trigonometric ratios (sine, cosine and tangent)
- ix. Demonstrate understanding of angles
- x. Apply proportional reasoning to solve problems involving unit pricing and currency exchange
- xi. Demonstrate understanding of income

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).



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STUDENT ASSESSMENT:

A. Think! Think! Think! (includes part/all of LOs 1 and 2)	Marked out of 10%
B. What's Your Measure? (includes part/all of LOs 1, 2, 3, and 4)	Marked out of 20%
C. Show Me the Money (includes part/all of LOs 2, 10, and 11)	Marked out of 10%
D. What's Your Angle? (includes part/all of LOs 8 and 9)	Marked out of 15%
E. Shape Up (includes part/all of LOs 2, 5, 6, and 7)	Marked out of 20%
Final Exam	25%
TOTAL	100%