Mathematics 504 – Cultural, Social, Technical (CST) Option

*COURSE SYLLABUS*

*2016-2017*

**Instructor: Miss T. Ausman  
Room: 252  
Contact Email:** [**tausman@wqsb.qc.ca**](mailto:tausman@wqsb.qc.ca) **Homework Homepage:** [**missausman.weebly.com**](http://missausmanshomework.blogspot.com)

*It is imperative that you check the homework homepage daily. I will assign homework in class, which will then be posted with due dates on the homework page.* ***This website is accessible on your smartphone.*** *In other words, there is no excuse not to be knowledgeable about the homework due dates,* ***even if you are absent for sickness, school-related activities, or family reasons.***

**Course Overview:**

Grade 11 CST Math is a continuation of the concepts learned in previous years. We will be building on prior knowledge while learning new and interesting topics. Math plays an important role in a person’s social, political and cultural development. In this course, you will be evaluated on two competencies:

1. Solves a situational problem – be able to relate math concepts to real life scenarios
2. Uses mathematical reasoning – be able to analyze a situation and solve it using the most effective math methods

**Required Materials for Every Class:**

Bound notebook (provided if you do not have one)  
Memory Aid  
Ruler  
Pencils/Erasers  
Calculator  
*You are not permitted to use looseleaf paper in this course. Your notes must be in a bound (coiled or stapled) book.***Topics to Be Covered**

**Tentative Schedule:**

**TERM I Sept - Oct**

Review (including algebra, lines, graphing)

System of equations

Inequalities (including graphing, word problems)

Polygon of constraints (optimization)

**TERM II Nov - Jan**

Graph and Graph Theory (types, vertices, edges)

Tree diagrams and networks

Paths and circuits (weighted, directed)

MID TERM EXAM

**TERM III Feb - May**

Review solids (area, volume)

Equivalent figures (lines, solids, planes)

Probabilities (events, (in)dependent, conditional, mathematical expectation, voting)

FINAL EXAM

**Reporting**

**Term mark breakdown:**

|  |  |  |
| --- | --- | --- |
| Competency 1 (30%)  ***Solves a situational problem*** | Situational problems   * *Minimum of two per term* * *NONE IN TERM 1* | 100% |
| Competency 2 (70%)  ***Uses mathematical Reasoning*** | Assignments – *approx.* *3-4 per term* | 25% |
| Quizzes – *approx 4-6 per term* | 25% |
| Tests – *min 2-3 per term* | 50% |
| Total Mark 100% | TOTAL | 100% |

*\*\* Homework completion and class participation are* ***crucial*** *in order to be successful on tests\*\**

**The final mark for the year is calculated with the following weighting:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Term 1 | Term 2 | Term 3 | | Total |
| 20% | 20% | Term mark 20% | Final exams 40% | 100% |

**Missing a Test or Quiz**Tests must be written on the scheduled day. If you know ahead of time that you will be away, alternative arrangements must be made before the test date. Missed tests will be written on your own time at lunch.

**Late Policy**All late arrivals will be recorded and detentions are served with the office.

**Absences**You are responsible for catching up on class notes and completing any assignments, tests or quizzes for which you were absent (no grade exemptions will be given for missed work). If you are aware of your absence in advance, please let me know.

**Class Procedures**We all must respect one another. My foremost request is that you do not talk while I am speaking – whether it is during attendance or when I am at the front of the room speaking to you.   
  
Your responsibilities include all of your materials to every class. **Please do not do mathematics work in pen.** You need your math binder and your texts and homework. You will not be permitted to go to your locker, as per school rules. As well, you must hand in all assignments on time. While I am somewhat flexible about late assignments due to illness or other excused absences, I expect you to see me the day you return from illness, **whether we have math that day or not**, to get your missed work. You need to be caught up at all times because you will quickly get behind. Assessments not turned in will result in study-hall appointments until I receive the missed work.  
 **Plagiarism**Many students, afraid that their incomplete homework will be checked by me, copy another’s answers at lunch or prior to class. *If you do this, it is cheating, and I will give a grade of zero for the assignment and refer you to the administration for disciplinary action.* The integrity of everyone’s individual grade is important, especially as this course is needed for both high school graduation and post-secondary admission.

**I am sure we will have a great time in Mathematics 504! Study hard!**