**Course Syllabus 2015-2016**

**Lake Career & Technical Center**

***Developing Skills for a Lifetime***

**Technical Math**

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**Prerequisites:** Students enrolled in specified 2 or 3 hour courses at Lake Career and Technical Center may be eligible to receive 1 credit in math, over a two year period.

**High School Credits:** 1 credit over a two year period. **Grade Levels:** 10-12

**Integrated Academic Credit Available:** One unit of elective Math credit will be awarded to students completing at least four credits in a career and technical education program and upon successful completion of the Math criteria established.  A value of .5 credit may be awarded at the end of each year.

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**Course Rationale:** Embedded curriculum helps prepare students for life after high school by providing real-world application of Math skills in the student's area of career choice as a collaborative effort of their LCTC Mathematics instructor with their career program instructor. Learning focuses on ratios and proportions, fractions, decimals, percent, problem solving, personal finance, and measurement.

**Course Description:** Students enrolled in specified 2 or 3-hour courses at Lake Career & Technical Center can be enrolled in Technical Mathematics, a two-year course embedded into their scheduled career program. Therefore, students must complete two years of Technical Math to earn a full credit of Math. Embedded curriculum helps prepare students for life after high school by providing real-world application of Math skills in the student's area of career choice as a collaborative effort of their LCTC Mathematics instructor with their career program instructor.

**Power Standards/Course Objectives:**

1.**TM1c: Integer Operations**

* Calculate area using proper units like square feet.
* add, subtract, multiply, and divide with grouping symbols.
* calculate paycheck based on a pay-rate and a tax-rate.
* calculate paycheck including overtime based on pay-rate.
* use rate like MPG to algebraically solve for a missing component.

2.**TM1a: Fraction Calculations**

* add, subtract, multiply, and divide mixed numbers.
* solve word problems involving fractions, decimals, and percent.
* order a list of fractions according to size.

3.**TM1b: Measurement**

* accurately read a tape measure to the nearest 1/16 of an inch.
* find the resulting length of stock after a given amount is removed.
* convert between metric and standard measurements.
* solve word problems involving measurements and related tools.

4. **TM1d: Ratios and Proportions**

* solve a proportion.
* write an accurate ratio to describe a word problem.
* compare ratios and explain their significance in a given situation.

**Outcomes/Goals of Course:**

1. Students will find real world application of math skills, problem solving, and critical thinking in the CTE program of choice.

**Evaluation:**

* Students can earn one senior Math credit over a two-year period, receiving ½ credit per year. Students must maintain an average of 80% or higher in order to earn credit for each year. **One credit may be earned.**
* If a student does not earn an 80%, it will show a grade of “I” for incomplete on progress reports.
* Students **MUST PASS** their career education class in order to earn credit for Technical Math.
* All course work is part of the career education class curriculum, and therefore, **the grade earned in Technical Math counts towards the CTE course and Technical Math.**
* The student’s home high school will determine the unit(s) of credit earned and if credit is awarded.

 Students are able to view their grades and attendance via the Student Portal. A link has been provided on the LCTC webpage -- <http://camdentonschools.schoolwires.net/lctc>

**Grading Scale:** Total points accumulated from all assignments will be used to establish the semester grade.

A 95% - 100% C 73% - 76%

A- 90% - 94% C- 70% - 72%

B+ 87% - 89% D+ 67% - 69%

B 83% - 86% D 63% - 66%

B- 80% - 82% D- 60% - 62%

C+ 77% - 79% F 59% and below

**CTSO:** Students are strongly encouraged to be members of SkillsUSA where students will develop leadership skills and be able to compete within their program area of study. Competitions can occur at the district, state, and national levels. Student dues are $15 and can be paid to the instructor. All “finalized” CTSO membership is due before February 15.

**Classroom & Student Expectations:**

1. At LCTC, we expect student mastery and partner with students to ensure this. Students must maintain 80% in their Technical Math class. Intervention through LEAD time or through an arranged make-up time will be utilized if a student falls below 80%.
2. Students who are absent will be responsible to make up assignments. If assignments are not made up independently, make-up work will be completed through LEAD time or through an arranged make-up time.