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Text: None required. Notes will be provided through Blackboard, although you may need to consult one or more external textbooks.

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#### GOALS FOR COURSE:

The goal for this course is to provide students with the opportunity to review mathematical content topics to prepare to take and pass the Washington Educator Skills Test - Endorsement (WEST-E) in Secondary Mathematics.

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#### GRADING:

As the purpose of this course is improvement, all students will enroll using the Credit/No Credit grade option. A grade of 'Satisfactory' will be assigned if all exercise sets and exams are completed. The exercises must be completed with a score of 70% or better before proceeding in the course.

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#### EXAMS:

Exams in this course are sample WEST-E exams, and other multiple choice exams of a similar format. There will be one such test for each unit along with a pre-test and post-test. **All exams must be completed according to the course schedule for a 'Satisfactory' grade in the course.**

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#### STRUCTURE OF THE COURSE:

In each unit, you will be able to download a review packet of notes on the topic of that unit. Then you will be assigned a set of 15-30 exercises. Work through the exercises, entering your answers into Blackboard for assessment. Then you will take a practice exam. During these exams, do your best to simulate test-taking conditions – choose a time and place where you can expect to be uninterrupted for the duration of the testing period; use nothing but a calculator, pencil and paper. After the exam, go back and review the problems that you missed – this is when the improvement will occur.

As you complete one unit, then next will become available, allowing you to proceed at your own pace with the constraint that the units must be completed by the closing date.

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#### COURSE SCHEDULE:

It is recommended that you progress through the course at the rate of one unit a week. In order to keep you on track, **each unit will be closed two weeks after the recommended completion date.** If you do not complete a unit before the closing date, then **materials cease to be accessible and the course will not be successfully completed.** The course schedule indicates the "Unit Closes" dates by which the units **must** be completed. This is a firm schedule, and no exceptions will be made. In summary: You may work ahead in this course, but you cannot lag significantly behind.

## COURSE TOPICS:

The topics for the course are taken directly from the conceptual framework for the WEST-E. These are broadly stated as:

- ▷ Measurement and Geometry: Principles of measurement, axiomatic systems and geometric proof
  - ▷ Discrete Mathematics: principles of discrete mathematics
  - ▷ Statistics and Probability: sampling, descriptive and inferential statistics and principles of probability
  - ▷ Algebra and Functions: Functions (linear, quadratic, exponential, etc.) & linear algebra
  - ▷ Calculus: Limits, continuity, derivatives and integrals.
  - ▷ Number and Operations: Representation, operation and number theory
  - ▷ Mathematical Processes: reasoning and proof, mathematical communication, problem solving
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## EXERCISE SETS:

There is one exercise set for each of these 8 mathematical topics:

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|------------------------------|--------------------------|
| · Measurement and Geometry   | · Algebra II             |
| · Discrete Mathematics       | · Calculus               |
| · Probability and Statistics | · Number and Operation   |
| · Algebra I                  | · Mathematical Processes |

For each topic, you will have access to a packet of review notes. Read through the review packet and then begin the exercises for that topic. You may need to consult outside references. Exercise sets will vary from 15 - 30 problems in length. Work the problems out on paper, then enter your answers carefully into Blackboard to be assessed. You will receive instant feedback on each assignment.

Students must receive a score of 70% or better to successfully complete an exercise set. Blackboard will not let you proceed to the next unit until this score is attained. If you are having problems with an exercise set, consult the note packet available through Blackboard, a textbook, or the professor.

Full solutions to each exercise set will become available once your answers have been submitted with 70% mastery.

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## HONOR AND RESPECT:

Each of us should consider our placement at this institution to be a privilege. We need to have respect for one another and for ourselves. In light of these facts, cheating in any form will not be tolerated. You are encouraged to work together on the exercise sets, however be sure that you can arrive at the answer independently. Remember that the purpose of the course is to prepare you to take an independent exam. The word “plagiarize” is defined by Merriam-Webster as “to steal and pass off (the ideas or words of another) as one’s own: use (another’s production) without crediting the source.” This is a very serious offense.

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## DISABILITY SERVICES:

Students with disabilities wishing to use academic adjustments in their CWU classes must be registered with Disability Services (DS). Information about the DS intake process may be obtained by emailing cds@cwu.edu or calling (509) 963-2171. Qualified students with disabilities may establish academic adjustments in this class by either sending me their official on-line accommodation request or speaking with me to establish the manner in which requested adjustments will be delivered.