An introduction to ceramic chemicals and glaze calculation for gas firing. This course is to for fill the Ceramics Chemistry portion of the art curriculum. A continuing study in ceramics for advanced ceramics students.

The student will choose a gloss, semi mat or mat glaze to work with. He will take a collection of about 12 colorants and create a glaze board of 144 tile glaze combinations and 55 tiles that show the colorants at an array of color strengths form .25% to 5%.

First choose the glaze that you would like to work with.


Make a 6000 gram batch of the glaze. Your glaze should be a clear glaze, no colorants.

You will need to purchase plastic cups to measure out 100 gram dry weight batches for testing.

The colorants that you will use are as follows

1. Cobalt Oxide
2. Cobalt Carbonate
3. Yellow Ochre
4. Red Iron Oxide
5. Chrome Oxide
6. Zinc Oxide
7. Zircopax
8. Tin Oxide
9. Rutile
10. Copper Carbonate
11. Illmenite 12. Vanadium Pentoxide

These colorants or measured out in the following percentages

1. .25
The tile must be identified by the glaze and the percentage of colorant. Example

CoO₂ is Cobalt oxide
The bottom of the tile should be marked as follows for example

M .25% CoO₂ M .5% CoO₂ M 1.% CoO₂ M 2.5% CoO₂ M 5.% CoO₂ This is read as Matt glaze .5 percent. cobalt ox

The percentages are added to the base 100 gram batches. The colored glaze is then applied to the tile and fired.

Taking the glaze with the 2.5 concentration create a cross color glaze chart.

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Course Syllabus Statement on Required Use of Masks/Facial Coverings by Students in Class At Angelo State University
As a member of the Texas Tech University System, Angelo State University has adopted the mandatory **Facial Covering Policy** to ensure a safe and healthy classroom experience. Current research on the COVID-19 virus suggests there is a significant reduction in the potential for transmission of the virus from person to person by wearing a mask/facial covering that covers the nose and mouth areas. Therefore, in compliance with the university policy students in this
class are required to wear a
mask/facial covering before, during, and after class. Faculty members may also ask you to
display your daily screening badge
as a prerequisite to enter the classroom. You are also asked to maintain safe distancing practices
to the best of your ability.
For the safety of everyone, any student not appropriately wearing a mask/facial covering will be
asked to leave the classroom
immediately. The student will be responsible to make up any missed class content or work.
Continued non-compliance
with the Texas Tech University System Policy may result in disciplinary action through the
Office of Student Conduct.

I have received, read and understand the copy of this course Art 3331 syllabus and information
sheet.

Student name ___________________________ Date Rev
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8/2020