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| **Course Title/Number** | Modern Geometries – MTH 448 |
| **Semester/Year** | Fall 2016 |
| **Days/Time** | MWF 2:00 – 2:50 |
| **Location** | Smith Hall 518 |
| **Instructor** | Dr. Clayton Brooks |
| **Office** | Smith Hall 723 |
| **Phone** | x6-6702 Note that the University does not allow me comprehensive telephone privileges, so I might not be able to return your call. |
| **E-Mail** | brooksc |
| **Office Hours** | MTWR 10:00 – 11:30 |
| **University Policies** | By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to [www.marshall.edu/academic-affairs](http://www.marshall.edu/academic-affairs) and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to [www.marshall.edu/academic-affairs/policies/](http://www.marshall.edu/academic-affairs/policies/). Academic Dishonesty/Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment |

**Course Description: From Catalog**

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| MTH 448 – Modern Geometries. 3 hrs.  Finite geometries, basic background material for the modern development of Euclidean Geometry, other geometries. (PR: C or better in MTH 300) |

**Course Philosophy**

I hear and I forget.

I see and I remember.

I do and I understand.

Furthermore, I believe that if you are able to explain a concept to others, then you are at a much higher level of understanding.

Therefore, the majority of the time in class will be having a student present results to the rest of the class, and it is the job of the class to constructively critique the results for the purpose that the entire class has full comprehension of the results and the concepts behind them.

As this is course is a requirement for the 5-adult mathematics education major, presentations will sharpen one’s skills to communicate effectively.

Constructive deviation from the topics at hand are encouraged.

We will try to strike a balance among theory, analytics, and applications in the subjects of Euclidean geometry, spherical geometry, conics, and finite geometries.

**Required Texts, Additional Reading, and Other Materials**

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| Text: Modern Geometry with Applications by George A. Jennings |

**Grading Policy**

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| The weights for determining grades will be:  100 points for in-class presentations  100 points for the mid-term exam  100 points for the final exam  (100 or less) points for other homework assignments and projects |

**Attendance Policy**

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| Given that the presentations and discussion will fill the majority of this class, attendance is critical. It is impossible to “make up” discussion and presentations. |

**Course Schedule**

By the nature of the class, the schedule will be quite fluid. Updates to the schedule will be decided upon when needed. The one certainty is that the final exam will be Monday, December 12, 12:45 – 2:45.