

- **Course Description**

Pathway under Mechanical Engineering, Graduate  
Materials Science Secondary Teach - ME 5501TC in FS2013

Note: This is a 2 semester graduate course offered on a non-degree basis for teachers who want to learn the fundamentals of Materials Science. All students in this course must complete the summer ASM International Materials Camp for Teachers prior to enrolling in ME 5501TC.

This course is offered fall semesters and is restricted to those who have completed the ASM International camp. Enrollment is by consent only. The outcome of this course will be demonstrated practical classroom application of knowledge and skills learned in the ASM International Materials Camp for Teachers.

**Reading List**

- Materials Science and Technology Teachers Handbook, Pacific Northwest National Laboratory, 2002
- Materials World Modules, Northwestern University, 1999

**Evaluation Criteria**

Teachers are required to complete a survey on use of this curricular material in their classrooms. Enhanced grades will be awarded for use of one or more of the modules taught in this course in their classroom when teachers provide a full lesson plan, sample student work and an evaluation report to the principal course instructor

**Cost to teacher participant**

The cost to teacher participants is limited to University of Missouri-Kansas City registration fee. Last year the total fee was set at \$250.