University of Wisconsin - Madison College of Engineering [EGR] Last Offered: 2012 Spring [1124] Direct Link to this Syllabus:

http://aefis.engr.wisc.edu/index.cfm/page/CourseAdmin.ViewABET?coursecatalogid=1077&pdf=True

- 1. 612766, Advanced Heat Transfer III Radiation
- 2. Credits: 3.00 Contact Hours:
- 3. Textbook and Materials:
- 4. Specific Course Information:
 - a. **Brief description of the content of the course (Course Catalog Description):** Analysis, including the nature of thermal radiation; radiative characteristics of surfaces; radiative heat transfer in evacuated enclosures and in enclosures containing an absorbing and emitting or a scattering medium. Techniques for obtaining solution to the governing integral equations; lumped-system approximation, successive approximations, variational methods and quadratures.
 - b. Pre-requisites or Co-requisites: Cons Inst
- 5. Specific Goals for the Course:
 - a. Course Outcomes:
 - b. ABET Student Learning Outcomes: