

**COURSE SCHEDULING ANNOUNCEMENT:** The following on-line web-based interdisciplinary graduate course will be offered Terms 1, 2, 3 and 4 and as Semester courses in the Fall and Spring.

## **OMGT / BENG 5633 (CROSS-LISTED): THE LINKAGES AMONG TECHNOLOGY, ECONOMICS AND SOCIETAL VALUES**

***- A unique participatory learning and engagement experience that transcends any single discipline and often transforms how change is viewed within the context of sustainability and societal systems -***

**COURSE GOAL AND OBJECTIVES:** To help develop, prepare and equip society's future leaders in the quest to obtain sustainable prosperity and wellbeing by providing them with the following:

- A macro-level understanding of how the linkages among technology, economics and societal values have shaped history and will likely impact changes in society in the foreseeable future.
- Knowledge of past societal demographics and the associated influence on current events, long-term trends and future societal directions.
- The opportunity to enhance effective communication skills in a supportive but challenging environment designed to foster critical thinking and enlightened leadership in the face of societal change.
- The ability to convey the nature of change to those having differing expertise, experiences, backgrounds and perspectives.
- The underlying but necessary skills and insights required to provide the enlightened leadership needed for society to obtain sustainable prosperity and wellbeing.

### **SUMMARY COURSE INFORMATION .....**

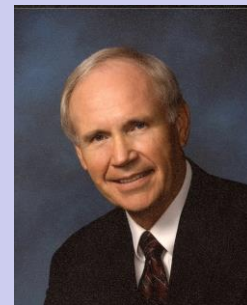
- **Audience:** Designed for graduate students with interdisciplinary backgrounds who like to interact with others about broad social, economic and technology issues.
- **Credit:** 3-hours.
- **Text:** *Option 1* – Basic version may be downloaded free in pdf form. *Option 2* - A more enhanced version may be downloaded for the iPhone/IPAD for a modest price as published by Apple through its Bookstore (<https://itunes.apple.com/us/book/linkages-among-technology/id548532106?mt=13>).
- **Lectures:** all prerecorded and available via Blackboard.
- **Emphasis:** placed on group interaction, independent investigation, written reports, oral presentations, and dialog about past, current and future events using blogs and discussion groups via Blackboard.
- **Grading:** Project-based with no formal examinations.
- **Prerequisites:** Graduate standing, interdisciplinary encouraged.

### **COURSE SYLLABUS AND RELATED INFORMATION IS .....**

- Available in Instructor's website: <https://exploring-linkages.uark.edu/>

### **THE INSTRUCTOR IS .....**

Otto J. Loewer, Professor of Biological & Agricultural Engineering, Ph.D., P.E.; 226 White Engineering Hall, University of Arkansas, Fayetteville, AR 72701; [OJL@uark.edu](mailto:OJL@uark.edu); Office: (479) 575-5118; Mobile: (479) 409-8182. (See the material on the right panel for more information.)



*Otto Loewer's career spans six land-grant universities where he has worked in research, teaching, extension, economic development and administration. Honors include being past international president of the American Society of Agricultural and Biological Engineers where he is a Fellow, member of the LSU College of Engineering Hall of Distinction, Engineer of the Year in Arkansas and Communicator of the Year in NW Arkansas. He has BS, MS and PhD degrees in Agricultural Engineering (LSU, Purdue), an MS in Agricultural Economics (Michigan State), a certificate of completion from the University of Oklahoma Economic Development Institute, and is a registered professional engineer. Professional highlights include serving as dean of engineering at the University of Arkansas and as founding director of the University of Arkansas Economic Development Institute.*

*This course was first taught in 2010 and is drawn from many workshops and presentations to state, national and international audiences.*