SOCIETY OF ACTUARIES

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Douglas Bujakowski, Jed Frees, Margie Rosenberg

Technology Enhanced Learning for Actuarial Science Education

Jed Frees, Margie Rosenberg,
and Doug Bujakowski

University of Wisconsin-Madison

Objective

To develop technology enhanced learning (TEL) tools to provide new ways for students to master classroom material

- Learning enhancement, not distance education
- Tools available anytime and anywhere
- Tools freely available for the public

The TEL Project Website

http://instruction.bus.wisc.edu/jfrees/UWCAELearn/default.aspx

Includes:
1. Video clips for exam questions
2. Video clips for learning R and applied statistics
3. Video tutorial for creating videos in Camtasia
4. Learning modules for actuarial mathematics

Video Clips for Exam Questions

- Society of Actuaries posts practice questions for each exam on their website
- Suggested solutions
  - Are concise
  - Utilize the quickest method of solving each problem
- Video clips provide
  - More explanation
  - Guided instruction

Video Clips for Exam Questions

- Benefits include
    - Another way of solving the problem
    - Voice and graphs
    - Ability to rewind and replay
- Quality Assurance
    - Clips have been reviewed by team members
    - Pilot testing in class
- Currently supporting exams P, MLC, MFE, and C

Video Clips for Applied Statistics

- Supporting R Commander
  - A GUI interface for R
  - 11 video clips that demonstrate how to use this package
  - A great way for new users to learn R
- 36 video clips that show how Excel can be used for data analysis

Creating a Video in Camtasia Studio

- All videos are created in Camtasia Studio
- Learn how to record, edit, produce, and share your own videos!
  - Our step-by-step instructions to produce video tutorials
  - TechSmith video Camtasia tutorials

Learning Modules (New!)

Resources include:

- Review Modules
  - Formula and symbol summary sheets
  - Flashcards
  - True/False and multiple choice questions
- Chapter Modules
  - Notes and graphs in an outline format
  - Audio and video explanations
  - Examples and exercises

Currently, we only have chapter modules for Actuarial Mathematics II.

Work for Academic Year
2012 - 2013

- Finish videos for exam problems
- Create learning modules for P, MLC
- Complete booklet of <u>written</u> tutorials for learning R as aid for applied statistics
- Create applications linking applied statistics to MLC and C

Thank you!