FOS 5561C - Citrus Processing Technology
Syllabus, spring 2006

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Other References:
Warren McCabe, Julian Smith, Peter Harriott, *Unit Operations of Chemical Engineering, 7th Ed.* (2005), McGraw-Hill


Course Objectives:
• To familiarize students with citrus processing technology and with the operation of citrus processing plants
• To develop a thorough understanding of the main unit operations in citrus processing
• To familiarize students with the impact of processing on the quality of citrus products

Calendar

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*Taught by Dr. Renée Goodrich*
Course Grading
- 3 Exams 50%
- 7 Reports 30%
- Homework 10%
- Short review paper 10%
- A = 90%, B = 80%, C = 70%, D = 60%
1. **Homework**
   Can be hand-written
   First page with results of all numerical calculation exercises
   Show all calculations in the following pages

2. **Lab report (4-6 pages, 12 pt Times New Roman, single space, not including references)**
   Typed except for equations and calculations
   Executive summary
   Materials and methods
   Experiment results (data in tables or graphs)
   Calculations (explicit equations, calculation procedures and values used)
   Discussion (Were the results expected? Does theory describe the data? Can a mathematical function describe the data? Were experiments reproducible? Compare with the literature)
   References

3. **Short review paper (4-6 pages, 12 pt Times New Roman, single space, not including references)**

   **Abstract (200 words)**
   The abstract or executive summary must summarize the most relevant information and relevance of the topic. The reader should get interested in reading the rest of the paper.

   **Introduction**
   This section should describe the topic you are reviewing and put it into context. It should include:
   - The need of the technology
   - Brief history of the technology
   - Relevance (current economic and practical impact)
   - Objective

   **Commercial Technology**
   This section is a description of currently available systems and critical comparison (i.e. pros and cons). List of manufacturers

   **Current Research (10-20 references 1995 to 2005)**
   Use search databases available through the University of Florida Library System. I recommend the following
   - ISI Web of Science
   - Article First
   - Science Direct
   - FSTA

   **Future Trends**
   After reading the literature, in your opinion, what needs are being addressed? What aspects of the topic should be addressed in the short and medium terms?