ECON 8555  
Water Resources Development and Management  
Spring Semester 2002  
SYLLABUS  
Wednesday 8:30 - 11:00 a.m.  
Leeds Business 207  

Instructor: Kenneth M. Strzepek  
Office: ECOT 549  
Telephone: 303-492-7111, at home: 303-530-3818 (between 6:00 and 22:00)  
Email: strzepek@colorado.edu  
Office Hours: Wednesday 11:00-12:00 am  

Textbooks:  

Course Goal:  
A research seminar in joint hydrologic-economic modeling and systems analysis.  
Addresses problems of joint water quantity-water quality management and joint surface-ground water management.  

Course Outline:  
Hydro-System Economic Model  
Simulation Models  
Reservoir Operation  
Groundwater  
Irrigation Systems  
Thermal Electrical  
Agro-Industries  
Hydropower  
Water Quality  
Mining  
River Basin Model
Spatial Partial Equilibrium

Economic Models with Water as a Input

Regional Input-Output Models
National Input-Output Models
Computable General Equilibrium Models

Grading: There are three requirements for the course.

1) Development of Three Prototype Hydro-economic Models (30%)
2) Final project on a detailed hydro-economic model (50%)
3) Oral presentation of your final project. (20%)

Student Disabilities: The University will make reasonable accommodations for persons with documented disabilities. Student should notify the Disability Services office located in Willard Hall, Room 331 and their instructors of any special needs. Instructors should be notified by September 15, 2000.