

Hydraulics (CWR 4202)

TOPICS TO BE COVERED

I REVIEW OF FLUID MECHANICS

II FLOW IN PRESSURE CONDUITS (Pages 222 to 256)

1. Energy principles
2. Headloss in pipes
3. Pump systems
4. Branching
5. Water distribution system

III FREE SURFACE FLOW (Pages 156 to 221)

1. Definitions, terminology
2. Flow classification
3. Uniform flow
4. Critical flow
5. Hydraulic jump
6. Gradually varied flow
7. Natural channels

If time allows additional topics will be:

IV HYDRAULIC STRUCTURES

V PUMP CHARACTERISTICS