

# Online Water Resources Program Faculty

- Dr. Ted Cleveland (PhD, UCLA, PE Texas)
- Dr. George (Rudy) Hermann (PhD, Texas Tech, PE Texas)
- Dr. Annette Hernandez (PhD, Texas A&M-Kingsville, PE Texas)
- Dr. Ken Rainwater (PhD, UT Austin, PE Texas)
- Dr. Venki Uddameri (PhD, Maine, PE Texas)

# Online Water Resources Engineering MSCE Program

- Students complete 4 breadth courses from the list below:
  - ✓ Numerical methods in engineering (mandatory, taught by CECE department faculty)
  - ✓ Probabilistic methods for engineers (mandatory, taught by CECE department faculty)
  - Machine learning for civil engineers (taught by CECE department faculty)
  - Developing reflective engineering through artful methods (taught by CECE department faculty)
  - Methods for processing cloud data (taught by CECE department faculty)
  - Other college of engineering graduate level courses as approved by advisor
- Students complete 4 depth courses in Water Resources major
  - Major Course 1
  - Major Course 2
  - Major Course 3
  - Major Course 4
- Students complete 3 credits of research practicum [RP]
  - Requires CECE graduate faculty mentor and written report on a research topic
- Students complete 3 credits of industry practicum [IP]
  - Requires industry mentor and written report on industry project

# Online Water Resources Engineering MSCE Depth Courses

Students *choose 4 depth* courses from the list below:

Open Channel Hydraulics (CE 5360)

Surface Water Hydrology (CE 5361)

Surface Water Modeling (CE 5362)

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Groundwater Hydrology (CE 5364)

Advanced Water Resources Management (CE 5366)

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# Online Water Resources Engineering MSCE *Breadth*

- ❑ Students *choose* 4 breadth courses from the list below:
  - ❑ Numerical methods in engineering (mandatory, taught by CECE department faculty)
  - ❑ Probabilistic methods for engineers (mandatory, taught by CECE department faculty)
  - ❑ Surface Water Modeling (CE 5362)
  - ❑ Systems Analysis in Water Resources
  - ❑ Sensor Systems Integration for Civil Engineers (taught by CECE department faculty)
  - ❑ Machine Learning for Civil Engineers (taught by CECE department faculty)
  - ❑ Developing reflective engineering through artful methods (taught by CECE department faculty)
  - ❑ Methods for processing cloud data (taught by CECE department faculty)
  - ❑ Placeholder