

# PETE 7241- Applied Reservoir Geomechanics

*Spring 2014*

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## Main Instructor

Arash Dahi  
Department of Petroleum Engineering  
Office: Patrick Taylor Hall 2115  
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Office hours: M- W 1:00 – 2:00.

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## Weekly Meeting - Lecture

T- Th 17:00 – 18:20  
Location: Tureaud Hall 203

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## Grading

Quiz	10%
Midterm	20%
Homework	30%
Small Project	10%
Final Project	30%

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## Course Outline

- Hydraulic Fracturing modeling and design
  - Hydraulic Fracturing assessment and appraisal
  - Wellbore instability analysis
  - Acidization treatments (modelling and design)
  - Sand Production analysis
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## References

*Reservoir Stimulation, 3rd Edition by Michael J. Economides and Kenneth G. Nolte (Jun 9, 2000)*

Petroleum production systems, Economides, Michael J., A. Daniel Hill, and Christine Ehlig-Economides,. Second Edition, 2012.

Petroleum Engineering Handbook, Volume VI: Emerging and Peripheral Technologies, 2007, Edited by: H.R. Warner Jr.

**Fundamentals of Rock Mechanics** by John Jaeger, N. G. Cook and Robert Zimmerman (Apr 30, 2007)