

**PETR 425 (3 cr. Hrs.)
Completions
Spring 18**

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Text: None

This course is about getting a wellbore ready for production. All the tools and techniques required which includes tubing, packers, perforating, acid and hydraulic fracturing. Designing the systems and procedures that go into completing wells both oil and gas. Computer lab for experience with fracturing software is including in the class.

Course learning outcomes

- Understanding tubing movement caused by changes in pressure and temperature
- The use of down hole tools in completions and workovers
- Basic understanding in perforation design
- Understanding the use of acid in completions and workovers
- Understand the physics of Hydraulic fracturing, rock mechanics and fluids
- Design of basic hydraulic fracturing job

Topics

- 1) Tubing
- 2) Packers and bridge plugs
- 3) Perforating
- 4) Acidizing
- 5) Hydraulic fracturing
- 6) Workover techniques

Test

Grade is based on in class tests, quiz's and projects

Homeworks

Accepted only on due date, late is not acceptable.

Recommended

Design and Appraisal of Hydraulic Fractures, Jack R Jones & Larry K Britt, SPE
Recent Advances in Hydraulic Fracturing, SPE Monograph Volume 12

Counseling and Disability Services

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