

Craft & Hawkins Department of Petroleum Engineering - Graduate Program Core Curriculum Requirements

All students seeking a Ph.D. or MS Degree in petroleum engineering must fulfill the following **minimum** requirements*. This list is a supplement and not a substitute for the LSU catalog requirement and may be updated by semesters**.

AREA/Courses	Graduate credit hours
I. <u>Engineering Math</u>	
MS: One of the following courses	3
PhD: Two of the following courses	6
Math 4038****, ME 4563, PETE 7201, EXST 7004, or other advanced mathematics course	
II. <u>Drilling</u>	
One of the following courses	3
PETE 4045, PETE 4086, PETE 4087, PETE 4241 Dir.Drlg. [Almeida, Spring 18-Sec.1]	
III. <u>Formation Evaluation</u>	3 (0)
One of the following courses	
PETE 3036***, PETE 4088, PETE 7214, PETE 7285	
IV. <u>Production</u>	3
One of the following courses	
PETE 4046, PETE 4085, PETE 7211, PETE 7212, PETE 4090, PETE 4084 PETE 7242 Mphase Flow in Pipes [Waltrich, Spring'18-Sec 3]	
V. <u>Reservoir</u>	6
PETE 4051, PETE 4050, PETE 4056, PETE 4083, PETE 4089, PETE 7202, PETE 7231, PETE 7280, PETE 7232	
Total credit hours: 18 – MS or 21 – PHD	

* Prior equivalent courses may be substituted for coverage but not for credit unless officially transferred.

** Some Special Topic courses PETE 4241, 4242, 7241, and 7242 may be added to core curriculum upon approval of the faculty.

*** Only students with BS in other engineering areas or science. The course does not contribute graduate credit hours.

**** Need to consult with the course instructor about waiving MATH 2057 prerequisite if a similar course has been already taken for undergraduate degree.

Procedure for PETE course inclusion in Core Curriculum (Faculty Meeting September 12, 2012)

1. Permanent inclusion of Special Topic courses in Core Curriculum

Procedure:

- The course should be offered at least two times
- Faculty approval (vote) based after evaluation of the instructor's proposal and course syllabus
- Course added to CC: number + title + instructor name

2. Temporary (one time) inclusion of Special Topic courses in Core Curriculum

Procedure:

- Instructor's proposal on the 2nd offering of the course
- Faculty approval (vote) based upon evaluation of the instructor's proposal and course syllabus
- Course added to CC: number + title + instructor name + semester-year