



## Memorandum

**Date:** Fall Semester 2009  
**To:** New Graduate Students  
**From:** Daulat D. Mamora  
**Subject:** Registration Information

Howdy and welcome to Texas A&M University. I need to let you know how important it is to register for the correct courses, and to make sure you immediately start thinking about your advisor, your committee, and your research topic. If you start to work on your research during your first semester, you can complete your educational experience in a reasonable amount of time and do very meaningful research.

**I will help you register for your first semester; however, you need to find an advisor and begin putting your committee together by the end of that semester.** Your advisor will help you choose the courses you need to take during the remainder of your time in our department. To find an advisor, you need to go to our website, which is <http://www.pe.tamu.edu/>, then click on faculty and staff. From there, you can learn more about our faculty, what courses they teach, and what research they do. You then need to go talk to several of the faculty members and see what opportunities you can find to work with one of them. By the end of the first semester, you should have made an agreement with someone on the faculty to be your advisor.

Once you have an advisor, you can find other faculty to serve on your committee, and you can work with the committee to develop a degree plan that fits your skills and your ambitions. You must always have at least one committee member from outside the department, and your degree plan should be completed before you register for your second semester, or soon thereafter.

We have very few rules concerning the course work you have to take to get a Master's or a Doctoral degree. Essentially, you, your committee chairman, and your committee need to agree on the courses **you should take**, on the basis of your background, so you are best prepared to do research and complete your degree. The university does have a few rules, which are included in the notes below. You should refer to the graduate catalog for more detail.

## **Master of Science**

- Include a minimum of 32 credit hours in your degree plan. (Your committee can require more.)
  - Complete at least 9 credit hours on campus during one semester to establish residency.
  - Take approximately 1/3 of your courses (2-3 courses) outside the department.
  - Take at least 3 of the core courses listed below.
  - During the semester when you write your research proposal, you should sign up for the 685 technical writing course.
- Observe University limits on certain courses:
  - No more than 12 hours transfer credit from another university.
  - No more than 12 hours of 689 courses.
  - No more than 8 hours of 691 and/or 685 courses.
  - No credit for 684 courses.
  - No more than 2 hours of 681 courses.
  - No more than 9 hours of undergraduate courses.
- Select the chairman of your committee before the start of the second semester.
  - Agree on at least 3 committee members, with 1 outside the department.
  - File a degree plan before the beginning of your second semester but by no means later than 90 days before your final oral examination.
- You must have an average GPR of 3.0 for all courses on your degree plan before you take the final exam.
- Submit your thesis proposal to the Office of Graduate Studies at least 14 weeks before the close of the semester in which you expect to receive the degree or before you schedule your final examination, whichever occurs first.
- Complete your Thesis and final examination.
- Complete all requirements within 7 years.

## **Master of Engineering**

- Include a minimum of 36 credit hours in your degree plan. (Your committee can require more.)
  - Take approximately 1/3 of the courses (2-3 courses) outside the department.
  - Take at least 3 of the core courses listed below.
  - Take 3 hours of PETE 692 for credit for the engineering project
- Observe University limits on certain courses:
  - No more than 12 hours transfer credit from another university.
  - No more than 12 hours of 689 courses.
  - No more than 4 hours of 684 or 685 courses.
  - No credit for 691 courses.
  - No more than 2 hours of 681 courses.
  - No more than 9 hours of undergraduate courses.
- Select the chairman of your committee before the start of the second semester.
  - Agree on at least 3 committee members, with 1 outside the department.
  - File a degree plan before the beginning of your second semester but by no means later than 90 days before your final oral examination.
- You must have an average GPR of 3.0 for all courses on your degree plan before you take the final exam.
- Write one or two major reports involving Petroleum Engineering subject matter and complete your final exam
- Complete all requirements within 7 years.

## **Doctor of Philosophy**

- Include a minimum of 64 credit hours beyond the MS degree or 96 hours beyond the BS degree in your degree plan.
  - Complete at least 1 academic year on campus to establish residency if you hold the MS degree or 2 academic years if you hold only the BS.
  - Your graduate committee is in total charge of the courses that will be on your degree plan. In general, you should take 2/3 course work and, and 1/3 research/seminar courses.
  - Approximately 1/3 of your course work (4-6 courses) should be outside of the department.
  - During the semester when you write your research proposal, you should sign up for the 685 technical writing course, if you have not already taken the course.
- Select the chairman of your committee before the start of the second semester.
  - Agree on at least 4 committee members, with 1 outside the department.
  - File a degree plan before the beginning of your third semester but by no means later than 90 days before your final oral examination.
- Take the preliminary examination when you have passed all but the last 6 credit hours of formal course work (except for 681 and 691 courses) on your degree plan, or no later than the end of the semester when you complete your formal course work.
  - Submit the results of your preliminary examination to the Office of Graduate Studies at least 14 weeks before your final examination date.
  - The preliminary exam should be both oral and written.
  - Each member of your advisory committee is responsible for administering a written examination in his or her particular field, unless he or she chooses to waive participation in this part of the examination.
- You must have an average GPR of 3.0 for all courses on your degree plan before you take the final exam.
- Submit your dissertation proposal to the Office of Graduate Studies at least 14 weeks before you schedule your final examination.
- Complete your dissertation and final exam.
- Complete all requirements within 10 years

## **For entering MS students with a BS in Petroleum Engineering**

The following courses pertain to all four (4) areas of specialization:

- Drilling
- Production
- Reservoir
- Economics and Evaluation

**Core Courses:** Students are encouraged to include at least three (3) of these core courses in their degree plan.

- PETE 603 Advanced Reservoir Engineering I
- PETE 605 Phase Behavior of Petroleum Reservoir Fluids
- PETE 618 Modern Petroleum Production
- PETE 620 Fluid Flow in Petroleum Reservoirs
- PETE 625 Well Control (or PETE 626 Offshore Drilling or PETE 635 Underbalanced Drilling)
- PETE 664 Petroleum Project Evaluation and Management

## **Suggested schedules for the first semester MS students with a BS in Petroleum Engineering**

### Drilling Option:

- PETE 602 Well Stimulation
- PETE 603 Advanced Reservoir Engineering I
- PETE 620 Fluid Flow in Petroleum Reservoirs
- PETE 635 Underbalanced Drilling
- PETE 689 Tight Gas Reservoirs
- PETE 681 Seminar
- MATH 601 Methods of Applied Mathematics I

### Reservoir Option:

- PETE 603 Advanced Reservoir Engineering I
- PETE 606 EOR Methods Thermal
- PETE 612 Unconventional Oil & Gas
- PETE 620 Fluid Flow in Petroleum Reservoirs I
- PETE 664 Petroleum Project Evaluation and Management
- PETE 681 Seminar
- PETE 689 Sp. Tp. Reservoir Character and Forecast
- PETE 689 Sp. Tp. CO<sub>2</sub> Cap Use EOR
- PETE 689 Sp. Tp. Upscal Geol Models for Flow Simulation
- MATH 601 Methods of Applied Mathematics I

### Production Option:

- PETE 602 Well Stimulation
  - PETE 603 Advanced Reservoir Engineering I
  - PETE 620 Fluid Flow in Petroleum Reservoirs
- Management
- PETE 662 Production Engineering
  - PETE 681 Seminar
  - PETE 689 Sp. Tp. Tight Gas Reservoirs
  - STAT 601 Statistical Analysis

### Economics and Evaluation:

- PETE 603 Advanced Reservoir Engineering I
  - PETE 618 Modern Petroleum Production
  - PETE 664 Petroleum Project Evaluation and
- Management
- PETE 667 Reserves and Evaluation
  - PETE 681 Seminar
  - STAT 601 Statistical Analysis

## **For entering MS students without a BS in Petroleum Engineering**

The following courses pertain to four (4) areas of specialization:

- Drilling
- Production
- Reservoir
- Economics and Evaluation

**Core Courses:** Students must include at least three (3) of these in their degree plan.

- PETE 661 Drilling Engineering
- PETE 662 Production Engineering
- PETE 663 Formation Evaluation and Analysis of Reservoir Performance
- PETE 664 Petroleum Project Evaluation and Management
- PETE 665 Petroleum Reservoir Engineering

## **Suggested schedules for entering MS students without a BS in Petroleum Engineering**

### Production Option:

- PETE 662 Production Engineering
- PETE 664 Petroleum Project Evaluation and Management
- PETE 681 Seminar
- STAT 601 Statistical Analysis

### Drilling Option:

- PETE 662 Production Engineering
- PETE 664 Petroleum Project Evaluation and Management
- PETE 681 Seminar
- MATH 601 Methods of Applied Mathematics I

### Reservoir Option:

- PETE 662 Production Engineering
- PETE 665 Petroleum Reservoir Engineering
- PETE 681 Seminar
- MATH 601 Methods of Applied Mathematics I

### Economics and Evaluation Option:

- PETE 662 Production Engineering
- PETE 664 Petroleum Project Evaluation and Management
- PETE 681 Seminar
- STAT 601 Statistical Analysis

**All students should also be encouraged to take GEOL 619 – Petroleum Geology during your program.**