



Electrical Engineering Curriculum Changes and Registration News

EE UNDERGRADUATE STUDIES WEB SITE

Information about the electrical engineering undergraduate programs is available on the Web, including curriculum lists, flow charts, course descriptions, and much more. Access is through the EE Home Page, <http://www.pi.ac.ae/ee/> (select Undergraduate).

SENIORS PLANNING TO GRADUATE IN DECEMBER 2006

Seniors planning to graduate in December 2007 must complete and submit a *Request To Graduate Form*. This is the student's obligation, and it cannot be done for the student. For a copy of the Form, please see Mr. Ali Sheikh in the EE Office at 3207 RUWAIS.

I. Changes from the 2005-06 EE Curriculum:

I.1 New course requirements

The 2006-07 curriculum includes the following new required courses

I.1.1 New Requirements:

1. ELEG 206 C++ Programming (3 credits) is a new required course, which students must take. It replaces MEEG 221 MATLAB (3 credits), which is no longer required;
2. ELEG 385 Microprocessors (4 credits) a new required course, which students must take. It replaces CHEM 181 Chemistry II (4 credits), which is no longer required;
3. H&SS111 Islamic Studies is a required H&SS course. This is a Ministry requirement. Unless they have no other option (had 4 H&SS including Principles of Economics), students must take H&SS111 Islamic Studies to graduate. The course will be offered in fall 2007;
4. PEEG 201 Introduction to the Petroleum Industry (2credits). It replaces PGEG121 Introduction to Geosciences (4 credits).

I.1.2: New Requirements that apply only to students who became freshmen in spring 2006

Two Health and Fitness courses (a total of 1 credit) are now required. *Students who entered the academic Program in fall 2006 or after must take* both HFIT 101 (0.5 credit) and HFIT 102 (0.5 credit) to graduate. These courses replace ENGR 104 Engineering Seminar (1 credit), which is no longer required for students who have become freshmen in spring 2006.

Students who follow 2006-07 curriculum should graduate with 139 credit hours as they are assumed to have taken PGEG121 Introduction to Geosciences (4 credits). ***Those who graduate according to the 2007-08 should graduate with 137 credits*** as they would take PEEG 201 Introduction to the Petroleum Industry (2credits). PGEG121 Introduction to Geosciences (4 credits).

I.2 Courses that are no longer required

The following courses are no longer required for graduation:

1. MEEG 221 MATLAB (1 credit);
2. CHEM 181 Chemistry II (4 credits);
3. ENGR 104 Engineering Seminar (1 credit), which is no longer for students who have become Freshmen in Spring 2006.
4. PGEG121 Introduction to Geosciences (4 credits).

I. 3 Required H&SS, Technical, and ELEG technical electives

In addition to the other requirements, the EE curriculum includes the following:

- 4 ELEG electives (a minimum of 12 credits)
- 4 H&SS courses (3 credits each): Islamic Studies, Principles of Economics, plus 2 H&SS electives.
- 2 Technical Electives (3 credits each).

II. Other important news

- ELEG 360 Feedback Control Systems will be offered in fall 2007. Lecture: **MW** 11:00-12:15am, and Lab: **M** 14:00-17:00.
- If you have not taken ENGR 104 (1 credit) **you must take** the two Health and Fitness courses: HFIT 101 (0.5 credit) and HFIT 102 (0.5 credit) for a total of 1 credit instead.
- PHYS341 Modern Physics with Applications can be used as a technical elective.
- Students in need to satisfy 1-2 credit hours to satisfy the graduation requirement of 139 credit hours can enroll in *ELEG 488 Independent Study* for the number of needed (1-2) credits. **Students who need to satisfy 3 or multiples of 3 credits should take regular courses. Additional (1-2) credits can be satisfied by taking ELEG 488 Independent Study.**
- ELEG 206 C++ Programming cannot be used as a senior ELEG elective unless B.1 below applies.
- Introduction to the Petroleum Industry (2 credits) is a new required course. It replaces PGEG121 Introduction to Geosciences (4 credits). This change applies only to those who graduate according to the 2007-08 students.

III. Registration Procedure:

Before visiting with your academic advisor for advising purposes, you should do the following:

1. On the 2006-07 EE flow chart, mark all the courses you have taken do date
2. Identify courses that you have already taken but do not appear on the flow chart and inform your advisor of the same. These courses maybe one or more of the following:
 - CHEM 181 Chemistry II
 - ENGR 104 Engineering Seminar
 - MEEG 221 MATLAB
 - ELEG 385 Microprocessors or Special Topics ELEG 489 Microprocessors
 - Transfer courses.
3. Consider the following **A-B** items and identify the specific scenario(s) that accurately applies to you,
4. Check the PI-Fall 2007 schedule and draft a suggested plan for the Fall 2007 semester to discuss with your advisor,
5. Schedule a meeting with your advisor to ask your questions, share the results of steps 2 and 3, discuss your draft plan, and finalize your fall schedule.

The following variations from previous EE curricula and suggestions on how to handle them, may apply to you depending on your level.

A. ELEG 385 Microprocessors and Microcontrollers, and CHEM 181 Chemistry II:

- CHEM 181 Chemistry II, a 4 credit hours course is **no longer required** for EE students.
- ELEG 385 Microprocessors is a **required** 4 credit hours course that EE students must take.

Related scenarios:

1. Students, who took Special Topics 489 Microprocessors (3 credits) **must not** take ELEG385 Microprocessors (4 credits). They need to satisfy the difference of one credit.
2. Students, who have not taken CHEM 181 Chemistry II, should take Microprocessors ELEG385 instead and graduate with 139 credits.
3. Students, who took CHEM 181 Chemistry II and still have at least one technical elective to take, should
 - i. take Microprocessors ELEG 385, and
 - ii. use Chemistry 181 in lieu of a technical elective.These students will graduate with 140 credits.
4. Students, who took CHEM 181 Chemistry II, and have satisfied the requirement of two technical electives, should take Microprocessors ELEG 385 as an EE senior elective. These students will graduate with 140 credits.

B. ELEG 206 C++ Programming as a 3 credits required course:

Related scenarios:

1. Students, who took MEEG 221 MATLAB but still have at least one technical elective to take, can take ELEG 206 C++ Programming as a technical elective.
2. Students who did not take MEEG 221 MATLAB **must take** ELEG 206 C++ Programming instead.
3. Students who took MEEG 221 MATLAB before fall 2006 and have satisfied the requirement of two technical electives can graduate according to the 2005/06 curriculum, which did not include ELEG

206 C++ Programming. This is the case with only some of the students who entered the Program in the AY 2003-04 and AY 2004-05.

PLANNING FOR SUMMER SCHOOL 2008

Students should be aware that Summer School is handled separately from the normal academic year. The department will try to offer ELEG205 and ELEG305 in the summer. However, this is not guaranteed. Summer courses will be listed in the *Summer Schedule of Classes*. It is important that when planning your upcoming semesters and summers, you be aware that a summer course, though listed, might not be able to be taught.

DESIGN COURSES

The prerequisite to ELEG 405 is that the student be in her/his senior year (**has completed ???** credit hours). Students must plan their junior and senior years carefully so the prerequisites for desired senior electives are satisfied.

ALTERING YOUR REGISTERED CLASSES

Please note that students require prior approval by an advisor to register for classes. They are free to change their and registered courses **only** through prior endorsement by an advisor, preferably their own. Graduation requirements are strictly applied. If a change is not within the student's curriculum, the non-curriculum course may not count toward graduation. Additionally, all exceptions to a program's curriculum shall be approved by the Program Director.

FOR QUESTIONS

Contact your advisor or the EE Office, RUWAIS 3207, Ali Skeikh: Sali@pi.ac.ae

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IEEE is the professional technical organization serving electro technology and related fields worldwide. The PI IEEE Student Branch holds regularly meetings of interest to student. The meetings provide not only a great platform to learn about various aspects of electrical and computer engineering but also to meet and network with other students in the department. IEEE Student Members have excellent opportunities for leadership and other valuable activities. EE students will be notified of meetings using flyers as well as our ECE student e-mail alias. To apply for IEEE membership and more information about our IEEE Student Branch, contact the EE Office in RUWAIS 3207.

