**Advance Registration** for Spring 2010 will begin November 4 (Wed).

Before you start your advance registration,
1. log on to **ISIS** from UF Home Page (click on the ISIS menu on the right side of the page)
2. click **Registration Prep** on the left in ISIS.

You will find information on the following items:
• Current directory information, including **emergency contact** information. **You must update your emergency contact every four months.**
• **Your degree audit.**
• **HOLDS** which prevent registration and should be cleared immediately. You cannot register at your registration start time until the hold is removed. (Review HOLD text carefully because **not all HOLDS prevent registration.**)
• **Your registration start time** (assigned based on the number of total hours earned).
• Your adviser's name, office location and telephone number

**Review your degree audit carefully. Discuss any questions with your adviser before your registration start time.** See the Flow Chart of Courses For Physics BS/BA degree.

Visit http://www.phys.ufl.edu/academics/courses/spring10.shtml and check what courses are offered.

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**Math Electives**

Both the BS and BA degrees require **3000-level or higher math/computer science electives.** The **BA degree** requires **one** course, and the **BS degree** requires **two.** We recommend that you take at least one course in **computer programming** if you are not already familiar with programming. A good introductory course, which also satisfies the math elective requirement, is **CGS 2421, Computer Programming for Engineers.** It is listed in the UF course schedule under Industrial and Systems Engineering. CGS 2421 is a 2-credit class. There is an accompanying 1-credit lab, **CGS 2421L,** which gives some practical programming experience. The course comes in FORTRAN, C++, and VB.net versions. While FORTRAN is still the choice for many physicists doing large-scale number-crunching, most physicists will now recommend C++ for a first course, since FORTRAN can be easily learned once you know C++. We also recommend that you have linear algebra before taking our senior level course in quantum mechanics. MAS 3114 - Computational Linear Algebra has been a popular linear algebra course for our majors. There is also a 4000 level linear algebra course, which tends to be proof oriented.

Some other useful mathematics courses for physics majors are:

- **MAD 4401** - Introduction to Numerical Analysis
- **MAA 4402** - Elements of Complex Variables for Engineers & Physical Scientists
- **MAP 4305** - Intro. to Differential Equations for Engineers & Scientists
- **MAP 4341** - Elements of Partial Differential Equations
- **MAP 4413** - Fourier Series and Transforms

These are not listed in any particular order, and other math courses may be very helpful.
Course Flow Chart for Regular Option (BS) (Including Transfer Student)

- CHM2045 w/ Lab
- MAC2311
- PHY2048 w/L
- PHY3101
- PHY3221
- PHY4802L
- PHY4803L

Course Flow Chart for Enriched Option (BS)

- CHM2045 w/Lab
- MAC2311
- PHY2060 w/PHY2061 w/L
- PHY351:
- PHZ3113
- PHY4802L

• The courses overlapping vertically can be taken simultaneously (but we do not recommend more than 3 Physics courses in a semester). Courses appearing earlier in flow (indicated by the arrow) to a specific course should be taken first except for PHY4802L and 4803L.
• Additional 4000-level Physics elective and two 3000 and higher level Math electives (two recommended courses are shown in the chart) should be incorporated in the schedule appropriately.
• The courses in white are offered only in Fall; the courses in light blue are offered only in Spring.