

UF PHYSICS UNDERGRADUATE ADVISING NEWSLETTER

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MEET YOUR ADVISOR REGULARLY!

LIST OF ADVISORS AND OFFICE HOURS

<http://www.phys.ufl.edu/academics/undergraduate/>
OR SNED AN E-MAIL TO ADVISING@PHYS.UFL.EDU



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.

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.

 **UF Teach**
Developing the Next Generation of Florida's Math and Science Teachers
<http://ufteach.clas.ufl.edu/courses.html>

PHY4802L OR PHY4803L

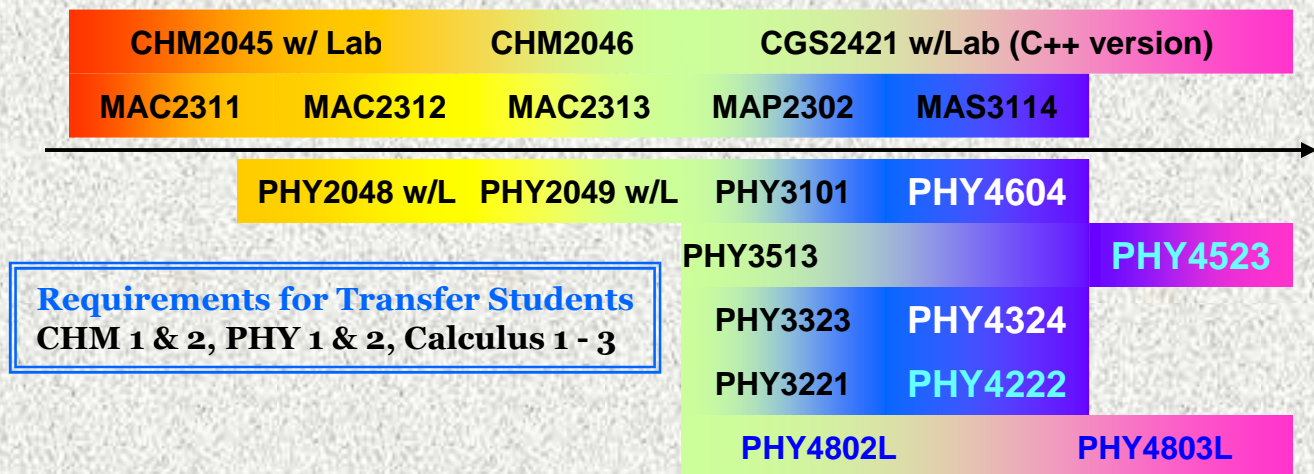
You need to go to the Student Services to register for these courses!

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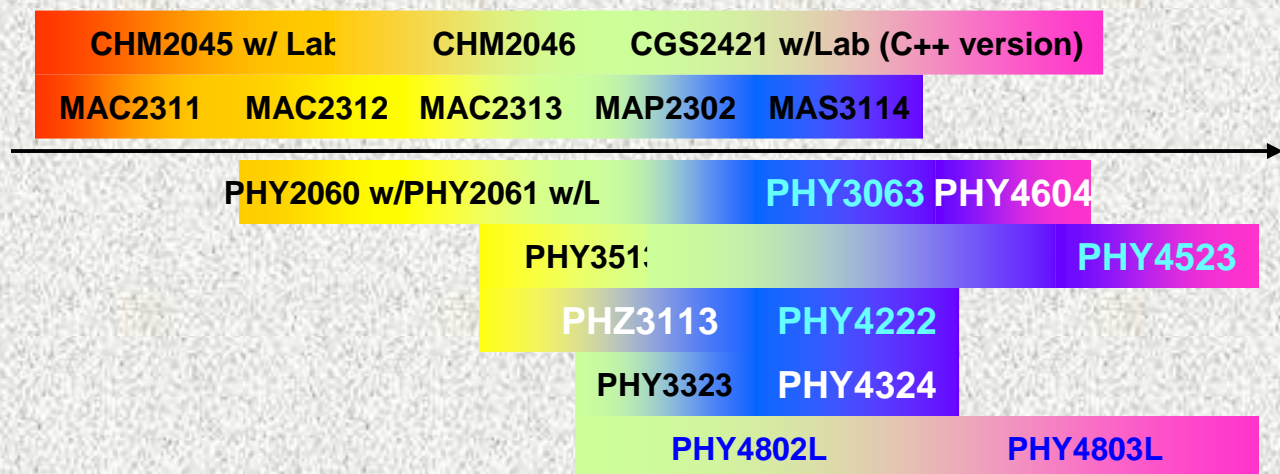
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COURSE FLOW CHART FOR REGULAR OPTION (BS) (INCLUDING TRANSFER STUDENT)



COURSE FLOW CHART FOR ENRICHED OPTION (BS)



• 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.**