Department of Integrative Physiology  
Bachelor of Arts  
http://www.colorado.edu/intphys/

Mission of the Department

Physiology is the field of biology that deals with function in living organisms. The Department of Integrative Physiology engages in and promotes the study of how genes, cells, tissues, and organisms function. The program of study emphasizes both the role of physical activity in health and function across the human lifespan and the responses of different organisms to various forms of stress. Our multidisciplinary teaching program requires students to take foundational courses in anatomy, biochemistry, mathematics, physics, physiology, and statistics. With this basic knowledge, students can undertake a flexible curriculum that includes the study of biomechanics, cell physiology, endocrinology, immunology, exercise physiology, and neurophysiology. The Department also encourages student participation in research.

Prospective Majors:

You can declare IPHY as a major through the online system if you are currently an A&S student. Go to: www.colorado.edu/advising. Click on “Make an appointment” and sign in with your Identikey. Under the pictures of your student success team, click on “Add, Drop, Change, or Interested in Major/Minor” and this will take you to the online major change system. If the online declare major option is temporarily unavailable, please make an appointment with a Biology advisor or visit their office during walk-in hours: Mon-Fri 9 am - 12 pm and 1 pm - 3 pm. If you are not an A&S student, you are required to meet with an advisor during the campus wide drop-in hours on Monday from 1-3 pm.

Undergraduate Advising:

Located in Porter B126 Students can visit with any IPHY advisor. To make an appointment with an advisor, sign up online at: http://advising.colorado.edu

<table>
<thead>
<tr>
<th>Ruth Heisler, Undergraduate Coordinator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Career Advising, Internships, Independent Study, Honors. Office hours as posted.</td>
</tr>
<tr>
<td>Office: RAMY - C186 Phone 303.492.5678 <a href="mailto:ruth.heisler@colorado.edu">ruth.heisler@colorado.edu</a></td>
</tr>
<tr>
<td>Advising Support Office: Rachel Salaz</td>
</tr>
<tr>
<td>Clare Small, Room 114 Phone: 303.492.7333 Fax: 303.492.4009 <a href="mailto:iphyinfo@colorado.edu">iphyinfo@colorado.edu</a></td>
</tr>
</tbody>
</table>
Selected Degree Requirements:

[MAPS (high school requirements) are not included here; see the University Catalog for details.]

1. 120 semester hours minimum. See your advisor about residency requirements.
2. A minimum of 45 upper division hours; at least 18 upper division hours of IPHY coursework C- or better, at least 12 upper division hours in the major taken at CU-Boulder. Upper division courses here are numbered 3000 or above.
3. A cumulative grade point average of 2.0 or better in all University of Colorado coursework.
4. 30 semester hours of IPHY coursework with grades of C- or better, 2.0 or better cumulative major GPA.
5. No more than 45 semester hours in any one department.
6. All required courses must be taken for a grade. No requirement may be taken pass/fail.

For further information on general degree requirements, please consult your catalog, degree and major audit, or your advisor.

II. College of Arts and Sciences Core Curriculum Requirements:

Students must comply with the A&S core curriculum requirements. Specific courses for this purpose may be found through the Degree Audit, accessible through the student tab in the MyCUInfo portal. Course listings may also be found in the University Catalog, available online at http://www.colorado.edu/catalog/. The core curriculum is organized into two major sections: Skills Acquisition and Content Areas of Study.

A. Skills Acquisition:

• **Foreign Language:** May be satisfied by completion of third level language in high school, or three successive semesters in college.

• **Quantitative Reasoning and Mathematical Skills:** MATH 1300-5, MATH 1310-5, or APPM 1350 will meet this requirement.

• **Written Communication:** IPHY 1950-3 (Lower Division) and IPHY 3700-3 (Upper Division) may be used to meet this requirement. There are other approved writing classes, not in the major, which also fulfill this requirement. See the University Catalog for details.

B. Content Areas of Study:

• **Historical Context:** 3 credit hours (lower or upper division).

• **Human Diversity:** 3 credit hours (lower or upper division).

• **United States Context:** 3 credit hours (lower or upper division).

• **Literature and the Arts:** 6 credit hours (at least 3 hours must be upper division, unless either HUMN 1010-6 or HUMN 1020-6 is used to meet this requirement).

• **Natural Science:** 13 credit hours. **Integrative Physiology majors are exempt from this requirement.**

• **Contemporary Societies:** 3 credit hours (lower or upper division).

• **Ideals and Values:** 3 credit hours (lower or upper division).
III. Integrative Physiology Major Requirements

These requirements apply to you if you have declared the Integrative Physiology major in Summer 2007 or later.

A. Ancillary Courses (C- or better required)  

<table>
<thead>
<tr>
<th>Course Number - Credit</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPHY 2800-4</td>
<td>Introduction to Statistics</td>
<td></td>
</tr>
<tr>
<td>IPHY 3410-3 (Lecture) &amp; IPHY 3415-2 (Lab)</td>
<td>Human Anatomy &amp; Human Anatomy Lab</td>
<td>One year of general biology (see Part A above)</td>
</tr>
<tr>
<td>IPHY 3470-3 (Lecture)</td>
<td>Human Physiology 1</td>
<td>One year of general biology &amp; One year of general chemistry (see Part A above); IPHY 3410</td>
</tr>
<tr>
<td>IPHY 3480-3 (Lecture) &amp; IPHY 3435-2 (Lab)</td>
<td>Human Physiology 2 &amp; Physiology Lab</td>
<td>IPHY 3470 (pre-req. for 3480 and 3435); IPHY 2800 (pre-req. for 3435 only)</td>
</tr>
</tbody>
</table>

Ancillary Total Hours:  32-33 Credit Hours

B. IPHY Specifically Required Courses (C- or better required)

<table>
<thead>
<tr>
<th>Course Number - Credit</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>IPHY 3060-4 (Fall only)*</td>
<td>Cellular Physiology</td>
<td>IPHY 3470</td>
</tr>
<tr>
<td>IPHY 4600-3 (Fall, Spring)*</td>
<td>Immunology</td>
<td>IPHY 3470</td>
</tr>
<tr>
<td>IPHY 4440-4 (Fall, Spring, Summer)*</td>
<td>Endocrinology</td>
<td>IPHY 3470</td>
</tr>
<tr>
<td>IPHY 4540-5 (Fall, Spring)*</td>
<td>Biomechanics</td>
<td>IPHY 2800 and IPHY 3470; Calculus 1 (see Part A above); PHYS 2010 or 1110</td>
</tr>
<tr>
<td>IPHY 4650-5 (Fall, Spring)*</td>
<td>Exercise Physiology</td>
<td>IPHY 2800 and IPHY 3470, and 3480; IPHY 3410 (co-req or pre-req)</td>
</tr>
<tr>
<td>IPHY 4720-4 (Fall, Spring, Summer)*</td>
<td>Neurophysiology</td>
<td>IPHY 2800 and IPHY 3470 and 3410</td>
</tr>
</tbody>
</table>

IPHY Hours Sub-Total:  17 Credit Hours

C. IPHY Major Core Courses (C- or better required)

Students choose 3 of the following 6 courses (2 of which must be taken at CU Boulder):

<table>
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<td>IPHY 4440-4 (Fall, Spring, Summer)*</td>
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<td>IPHY 4720-4 (Fall, Spring, Summer)*</td>
<td>Neurophysiology</td>
<td>IPHY 2800 and IPHY 3470 and 3410</td>
</tr>
</tbody>
</table>

IPHY Core Sub-Total:  11-14 Credit Hours

*This is the current schedule pattern. Course availability is subject to change in the future.

Total IPHY Hours Required For Major:  30 Credit Hours

NOTE: Only 45 IPHY hours MAXIMUM can be counted toward the degree.
IV. Electives in Integrative Physiology (1-16 credit hours)

A. Electives That Meet CORE Requirements

- IPHY 1950-3 Introduction to Scientific Writing in Integrative Physiology*
- IPHY 3700-3 Scientific Writing in Integrative Physiology **

  * This satisfies the Arts & Sciences Lower Division requirement for Written Communication.
  ** This satisfies the Arts & Sciences Upper Division requirement for Written Communication.

B. Variable Credit Electives

- IPHY 4860-(1→6) Independent Study - (For more information, see the FAQ section of this document)
- IPHY 4870-3 Honors Thesis - (For more information, see the FAQ section of this document)
- IPHY 4930-(1→6) Internship - (For more information, see the FAQ section of this document)

C. Additional Electives the Department May Offer:

Please see the online catalog for course descriptions at [http://www.colorado.edu/catalog/](http://www.colorado.edu/catalog/). NOTE: Many of these classes have prerequisites.

- IPHY 2420-3 Nutrition for Health (restricted to freshman and sophomores)
- IPHY 2500-1 Perspectives in Health and Medicine
- IPHY 2910-(1→3) Practicum in Integrative Physiology
- IPHY 3010-(1→2) Teaching in Integrative Physiology
- IPHY 3440-3 Nutrition for Health and Wellness
- IPHY 3500-2 Applied Clinical Research
- IPHY 3660-3 Dynamics of Motor Learning
- IPHY 4010-(1→3) Seminar in Integrative Physiology (Upper Division)
- IPHY 4200-3 Physiological Genetics and Genomics
- IPHY 4580-3 Sleep Physiology
- IPHY 4730-3 Integrative Motor Control
- IPHY 4740-3 Theory of Motor Skill Learning

Seniors may also take up to 6 hours of 5000-level graduate courses as electives.

*Note - To reach the 6-hour maximum credit to count toward the IPHY major, any combination of IPHY 2910, IPHY 4930 and IPHY 4940 can be used, but only 6 hours combined from all three courses will count toward the IPHY major.
# Integrative Physiology Major

## Suggested 4-year plans

*These plans should only be used as a general guide. Individual course choice depends on previous academic preparation and success.*

## Integrative Physiology: covering major requirements only.

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
</table>
| 1    | Biology with lab – 4 | Biology with lab – 4  
Calculus (MATH 1300 – 5 or MATH 1310 – 5  
or APPM 1350 – 4) |
| 2    | CHEM 1113/1114: General Chemistry 1 – 5  
I 2800: Intro. to Statistics – 4 | CHEM 1133/1134: General Chemistry 2 – 5  
I 3410: Human Anatomy (Lecture) – 3  
I 3415: Human Anatomy (Lab) – 2 |
| 3    | PHYS 2010: General Physics 1 – 5  
I 3470: Human Physiology 1 – 3 | PHYS 2010: General Physics 2 – 5  
I 3480: Human Physiology 2 – 3  
I 3435: Physiology Lab – 2 |
| 4    | IPHY Major Core Course - #1*  
IPHY Major Core Course - #2* | IPHY Major Core Course - #3* |

## Integrative Physiology + Additional Chemistry: often required for pre-health programs.

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
</table>
| 1    | Biology with lab – 4  
CHEM 1021: Introduction to Chemistry – 4  
(Note: If CHEM 1021 is not needed, then all chemistry courses move up one semester.)  
—or—  
Calculus (MATH 1300 – 5 or MATH 1310 – 5  
or APPM 1350 – 4 (or take in the Spring.)) | Biology with lab – 4  
CHEM 1113/1114: General Chemistry 1 – 5 |
| 2    | CHEM 1133/1134: General Chemistry 2 – 5  
I 3410: Human Anatomy (Lecture) – 3  
I 3415: Human Anatomy (Lab) – 2 | CHEM 3311/3321: Organic Chemistry 1 – 5  
I 2800: Intro to Statistics – 4  
I 3470: Human Physiology 1 – 3 |
| 3    | CHEM 3331/3341: Organic Chemistry 2 – 5  
I 3480: Human Physiology 2 – 3  
I 3435: Physiology Lab – 2 | CHEM 4611: Survey of  
Biochemistry – 3  
PHYS 2010: General Physics 1 – 5 |
| 4    | IPHY Major Core Course - #1*  
PHYS 2020: General Physics 2 – 5 | IPHY Major Core Course - #2*  
IPHY Major Core Course - #3* |

(I = Integrative Physiology Course)

*See page 3 for course selection and prerequisites.*
Integrative Physiology (with preliminary math and chemistry courses)
This plan includes courses that prepare students for calculus and general chemistry

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
</table>
| 1    | Biology with lab – 4  
CHEM 1021: Introduction to Chemistry – 4  
MATH 1150: Precalculus Math - 4 | Biology with lab – 4  
Calculus (MATH 1300 – 5 or MATH 1310 – 5  
or APPM 1350 – 4) |
| 2    | CHEM 1113/1114: General Chemistry 1 – 5  
I 2800: Intro. to Statistics – 4 | CHEM 1133/1134: General Chemistry 2 – 5  
I 3410: Human Anatomy (Lecture) – 3  
I 3415: Human Anatomy (Lab) – 2 |
| 3    | PHYS 2010: General Physics 1 – 5  
I 3470: Human Physiology 1 – 3 | PHYS 2020: General Physics 2 – 5  
I 3480: Human Physiology 2 – 3  
I 3435: Physiology Lab – 2 |
| 4    | IPHY Major Core Course - #1*  
IPHY Major Core Course - #2* | IPHY Major Core Course - #3* |

Answers to Frequently Asked Questions

Urgent/Need to Know:

- **How do I add/drop/withdraw from a class?** You can accomplish any schedule changes through the student tab on your MyCUInfo account. Important dates and deadlines can be found on the registrar’s website ([http://registrar.colorado.edu/](http://registrar.colorado.edu/)).

- **How do I add/change/drop a major or minor?** Each department on campus handles this a bit differently. In general, students interested in adding or changing majors need to attend a prospective major meeting, either in person or online, and complete the appropriate paperwork. A complete list of majors and minors offered by the College of Arts and Sciences and information on how to declare each is available under “Continuing Students” on the Academic Advising Center website [http://advising.colorado.edu/students/continuing-students](http://advising.colorado.edu/students/continuing-students).

Core & Major Requirements:

- **How do I know what core or major courses I still need to take?** All students have access to the Degree Audit Reporting System (DARS) 24 hours a day. The degree audit is an invaluable tool to see how courses apply toward requirements and what still needs to be completed. If you are interested in possibly changing majors, you can also run an audit for that major to see how your classes could be applied. You can access your degree audit through the student tab on your MyCUInfo account.

- **Which classes do I need to take for my major?** You can access your degree audit through the student tab on your MyCUInfo account and it outlines all met and remaining requirements. The Integrative Physiology Department also has valuable information and clearly outlines major requirements on its website at [http://www.colorado.edu/intphys/index.html](http://www.colorado.edu/intphys/index.html). This is a useful resource for major requirements, internship and research opportunities as well as important departmental news. Your advisor is also an important resource in clarifying requirements and assisting you through your academic career at CU.
• **What if I don't have the background to go directly into the science courses required for the major?** For some students with little or no high school chemistry or physics or pre-calculus, or for those students who have been out of school for some time, it may be worth your while to take a preparatory course.

  - To prepare for Calculus 1:
    - Algebra: MATH 1001-3 or MATH 1011-3 *plus* Trigonometry: MATH 1021-2
    - Pre-calculus: MATH 1150-4 (*includes both college algebra and trigonometry*)
  - To prepare for CHEM 1113/1114-*5: take CHEM 1021-4.
  - To prepare for Physics 1: take PHYS 1000-3.

*When in doubt, see your advisor!*

• **How many IPHY electives do I need?** You need 30 IPHY credit hours of C- or better to complete the major. The number of elective credits you need will vary based upon what 3 IPHY core courses you choose to take. Also, if you take your statistics class outside the department, you may need additional IPHY elective hours.

**Overlapping Requirements:**

• **What ancillary courses outside the major also count for College Core Areas?** Any course that fulfills our calculus requirement (MATH 1300-*5, 1310-*5 or APPM 1350-*4) will fulfill the College requirement in quantitative reasoning. Integrative Physiology majors are exempt from the natural sciences Core requirement because of the biology, chemistry and physics required in the major.

• **What IPHY requirements can be met through courses from other departments?** Statistics (IPH Y 2800) can be met with PSYC 3101, MATH 2510, and MATH 2830 (UCD).

• **Do some IPHY elective courses count both toward IPHY elective credit and for College Core areas?** Yes. IPHY 1950-*3 (Introduction to Scientific Writing in Integrative Physiology) fulfills the lower division written communication requirement. IPHY 3700-*3 (Scientific Writing in Integrative Physiology) fulfills the upper division written communication requirement. These courses also help fulfill the 30-hour requirement in Integrative Physiology.

• **Do I have to take writing through IPHY?** Only if you pursue honors or a BA/MS degree. IPHY 3700 is strongly recommended for certain Pre-Health majors and as preparation for graduate school. See your Pre-Health advisor if you have additional questions about IPHY 3700’s applicability to graduate health programs.

**Transfer Issues:**

• **How can I be sure a course from another school will transfer to CU? How do I know if it will apply to a core or major requirement?** It is recommended that you have any transfer coursework preapproved. For core or elective classes you will need to complete the preapproval form which can be found on the Academic Advising Center website ([http://www.colorado.edu/advising/policies-procedures/forms-petitions](http://www.colorado.edu/advising/policies-procedures/forms-petitions)).
  - **How do I get a transfer course approved?** Please check the list of courses at [https://beta.transferologylab.com/login.htm](https://beta.transferologylab.com/login.htm) for classes that have already been approved for transfer credit.
For **pre-approval** of **non-IPHY coursework** (ancillary or Core courses) that is not from a Colorado Community College you will need to submit the “Transfer Credit Pre-Approval” form. On the left side of the screen click on “Petitions/Forms” then select “Transfer Credit Pre-Approval”. Follow the directions and be as specific as possible under the “major or core requirement” column (ex. If you want a calculus class to come in as MATH 1300 then be sure to specify MATH 1300 in that column). You will submit the form, course description, and sometimes syllabi, to the Academic Advising Center in Woodbury 109. It can take 3 to 6 weeks for a response.

**BEFORE** you take an **Integrative Physiology** course at another US institution, bring the 'Pre-approval' form and the course description to your advisor for evaluation of the course. For courses from foreign institutions, begin the process at the Office of International Education.

- **How do I know if my study abroad credits will transfer to CU Boulder?** If you are going to study abroad through the CU Boulder study abroad programs, the credits are transferable. Did you know you can take pre-approved IPHY core courses abroad? Check it out here for a list of pre-approved IPHY courses (make sure to select the IPHY tab at bottom of the Excel sheet): [http://studyabroad.colorado.edu/?go=MajorMinorApprovals](http://studyabroad.colorado.edu/?go=MajorMinorApprovals). If an IPHY related course is not on the pre-approved list and you think it could be approved as an IPHY core or an IPHY elective, please submit the "major equivalencies evaluation form" to your advisor and have the course reviewed. Question? Visit the study abroad office for more details.

- **Can I take courses through Continuing Education to meet A&S core or major requirements?** Yes, some courses offered through Continuing Education have been approved to meet A&S core requirements, just be sure to double check when registering. Look for courses under “Distance-Independent Learning”. You can choose a course that is self-paced and gives you six months to complete it, or a term-based course that has a specific window of time for the course objectives to be completed in. The CU tuition does not include any courses taken through Continuing Education. For a list of courses and more information on the Continuing Education Program, please visit their website at [http://conted.colorado.edu/](http://conted.colorado.edu/).

### Advanced/Individualized Courses:

- **How do I get involved in research or independent study?** There are many ways to get involved in research. One way to get started is to go to the departmental website, [http://www.colorado.edu/intphys](http://www.colorado.edu/intphys), and check out the research areas in which the faculty are engaged. When you find an area that interests you, talk to the faculty member to see how you can get involved. Credit can be gained via independent study or funding can be provided via the Undergraduate Research Opportunities Program (UROP): [http://enrichment.colorado.edu/urop/](http://enrichment.colorado.edu/urop/). Minimum prerequisites for independent study are junior standing and an overall GPA of 2.0. See [http://www.colorado.edu/intphys/ugrad/opportunities.html](http://www.colorado.edu/intphys/ugrad/opportunities.html) for more information online or go to our videos page: [http://www.colorado.edu/intphys/ugrad/videos.html](http://www.colorado.edu/intphys/ugrad/videos.html).

- **How do I get involved in teaching?** We offer the opportunity for students to be Teaching Assistants in courses which have a laboratory component. Students must have earned at least a B in the course they wish to assist. See the IPHY 3010 (**Teaching in Integrative Physiology**) application for more details: [http://www.colorado.edu/intphys/ugrad/iphy3010form.pdf](http://www.colorado.edu/intphys/ugrad/iphy3010form.pdf).

- **Are internships required?** No, but they are highly recommended. Those students whose goal is a graduate health program will probably be doing a number of volunteer internships in situations related to the program of interest. See the Pre-Health office for more information. For students who plan careers not requiring an advanced degree (corporate health, health administration, pharmaceutical or health supplement sales, for example) an internship for credit can provide an opportunity to work in the field of interest and develop contacts. Prerequisites for IPHY 4930 are junior standing, completion of at least 2 of the upper division major core courses, and an overall GPA of 2.0 (see the internship application for details: [http://www.colorado.edu/intphys/ugrad/iphy4930form.pdf](http://www.colorado.edu/intphys/ugrad/iphy4930form.pdf). For more information go to our videos page: [http://www.colorado.edu/intphys/ugrad/videos.html](http://www.colorado.edu/intphys/ugrad/videos.html).
• Freshmen and sophomores with an internship possibility can look into IPHY 2910 (*Practicum in Integrative Physiology*): [http://www.colorado.edu/intphys/ugrad/iphy2910form.pdf](http://www.colorado.edu/intphys/ugrad/iphy2910form.pdf). See Ruth Heisler or your advisor for more information.

• **How do I find out about internships?** Check [http://www.colorado.edu/intphys/ugrad/opportunities.html](http://www.colorado.edu/intphys/ugrad/opportunities.html). Call the hospital/clinic/health club you are interested in. Go to the Career Services Office or [http://careerservices.colorado.edu/](http://careerservices.colorado.edu/). The Pre-Health office also keeps an updated handout on local volunteer opportunities, among many other useful things ([http://advising.colorado.edu/prehealth](http://advising.colorado.edu/prehealth)). For more information go to our videos page: [http://www.colorado.edu/intphys/ugrad/videos.html](http://www.colorado.edu/intphys/ugrad/videos.html)

• **I’m interested in doing an Honors Thesis. Do you have an Honors Program?** Yes, we offer the opportunity for strong students to pursue departmental honors. To apply, you need to be a sophomore or junior with a minimum cumulative GPA of 3.3. A written research thesis will be required of students in order to graduate with departmental honors. For more information, go to our videos page: [http://www.colorado.edu/intphys/ugrad/videos.html](http://www.colorado.edu/intphys/ugrad/videos.html) or contact Ruth Heisler.

• **Careers/Graduate Study**

  • **How do I find out about careers in Integrative Physiology?** Go to Career Services ([http://careerservices.colorado.edu/public/](http://careerservices.colorado.edu/public/)). Ask the faculty. For health-related careers, contact Pre-Health advising in University Club 111. Watch for emails from Academic Advising or the Integrative Physiology Student Board. And finally, see Ruth Heisler for more information.

  • **What are the best courses to take to get into a medical/dental/nursing/physical therapy program?** The Pre-Health advisors are best suited to answer those types of questions ([http://advising.colorado.edu/prehealth](http://advising.colorado.edu/prehealth)). In general it is recommended to take the more challenging courses, when an option is available. Usually it is not only GPA, but also test scores and relevant experience that help improve an applicant’s chances of admittance. The Pre-Health website also has information regarding the pre-requisites for various health care career paths; available under the “Health Careers” heading on the left side of the page. If you are curious about a specific program’s preferences, we encourage you to contact that school directly.

  • **Can I earn a BA and an MS in five years?** Yes. The Department offers a concurrent BA/MS program for strong, highly motivated students with at least a 3.3 cumulative GPA. For more information or to apply, contact Ruth Heisler during your sophomore year (and **no later** than the second semester of your junior year). For additional information go to our videos page: [http://www.colorado.edu/intphys/ugrad/videos.html](http://www.colorado.edu/intphys/ugrad/videos.html)