# INTEGRATIVE PHYSIOLOGY

## Suggested 4-Year Plans

[http://www.colorado.edu/iphy/](http://www.colorado.edu/iphy/)

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

## GRADUATING IN FOUR YEARS

To maintain adequate progress in IPHY, students should meet the following requirements:

- By the first semester, declare the major.
- Before the beginning of the fifth semester, complete the general biology and chemistry requirements.
- By the end of the sixth semester, complete the anatomy and physiology requirements.

### OPTION #1

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Biology with lab (4 credits)</td>
<td>Biology with lab (4 credits)</td>
</tr>
<tr>
<td></td>
<td>*IPHY 1020: Intro to IPHY (1 credit)</td>
<td>CHEM 1113/1114: Gen Chem (5 credits)</td>
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<td></td>
<td></td>
<td>*IPHY 2400: Medical Terminology (2 credits)</td>
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<tr>
<td>2</td>
<td>CHEM 1133/1124: Gen Chem 2 (5 credits)</td>
<td>IPHY 3280: Intro. to Statistics (4 credits)</td>
</tr>
<tr>
<td></td>
<td>IPHY 3410: Human Anatomy (3 credits)</td>
<td>IPHY 3430: Human Physiology (4 credits)</td>
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<tr>
<td></td>
<td>*IPHY 3415: Human Anatomy Lab (2 credits)</td>
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<tr>
<td>3</td>
<td>IPHY 3435: Physiology Lab (2 credits)</td>
<td>PHYS 2010: General Physics 1 (5 credits)</td>
</tr>
<tr>
<td></td>
<td>or IPHY 3437: Virtual Physiology Lab (2 credits)</td>
<td>**IPHY Core Course #1 (3-5 credits)</td>
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<tr>
<td>4</td>
<td>**IPHY Core Course #2 (3-5 credits)</td>
<td>**IPHY Core Course #4 (3-5 credits)</td>
</tr>
<tr>
<td></td>
<td>**IPHY Core Course #3 (3-5 credits)</td>
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</tbody>
</table>

### OPTION #2 with additional calculus, chemistry, and physics (often required for pre-health programs)

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Biology with lab (4 credits)</td>
<td>Biology with lab (4 credits)</td>
</tr>
<tr>
<td></td>
<td>Calculus (MATH 1300-5 credits, MATH 1310-5</td>
<td>CHEM 1113/1114: Gen Chem (5 credits)</td>
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<td></td>
<td>credits or APPM 1350-4 credits)</td>
<td>*IPHY 2400: Medical Terminology (2 credits)</td>
</tr>
<tr>
<td></td>
<td>*IPHY 1020: Intro to IPHY (1 credit)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CHEM 1133/1124: Gen Chem 2 (5 credits)</td>
<td>CHEM 3311/3322: Organic Chem 1 (5 credits)</td>
</tr>
<tr>
<td></td>
<td>IPHY 3410: Human Anatomy (3 credits)</td>
<td>IPHY 3280: Intro. to Statistics (4 credits)</td>
</tr>
<tr>
<td></td>
<td>*IPHY 3415: Human Anatomy Lab (2 credits)</td>
<td>IPHY 3430: Human Physiology (4 credits)</td>
</tr>
<tr>
<td>3</td>
<td>CHEM 3331/3341: Organic Chem 2 (5 credits)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IPHY 3435: Physiology Lab (2 credits)</td>
<td>CHEM 4611: Survey of Biochemistry (3 credits)</td>
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<tr>
<td></td>
<td>or IPHY 3437: Virtual Physiology Lab (2 credits)</td>
<td>PHYS 2010: General Physics 1 (5 credits)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>**IPHY Core Course #1 (3-5 credits)</td>
</tr>
<tr>
<td>4</td>
<td>PHYS 2020: General Physics 2 (5 credits)</td>
<td>**IPHY Core Course #3 (3-5 credits)</td>
</tr>
<tr>
<td></td>
<td>**IPHY Core Course #2 (3-5 credits)</td>
<td>**IPHY Core Course #4 (3-5 credits)</td>
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</tbody>
</table>

*Recommended, not required

**See IPHY roadmap on next page for course selection and pre-requisites

## CHECK YOUR DEGREE PROGRESS

A degree audit report is a tool on MyCUInfo ([https://myCUinfo.colorado.edu](https://myCUinfo.colorado.edu)) that tracks degree requirements. We recommend reviewing an up-to-date degree audit every semester to help yourself stay on track toward graduation.
Ancillary Courses (C- or better required)

General Biology 1
(Recommended)
Offered fall and summer

Intro. to IPHY: IPHY 1020-1
(Recommended)
Offered fall only

Intro. to Chemistry: CHEM 1021
(Recommended)

General Biology 2
(Recommended)

General Biology Lab
(Various options)

Human Anatomy: IPHY 3410-3
Offered fall, spring, and summer
Pre-req: EBIO 1210 or MCDB 1150

Anatomy Lab: IPHY 3415-2
(Recommended)
Offered fall, spring, and summer
Co-req: IPHY 3410

General Chemistry 1:
CHEM 1113/1114
Offered fall, spring, and summer

Statistics
Offered fall and spring
IPH 3280 (recommended), PSYC 2111, MATH 2510, EBIO 1010, or SOCY 2061

Statistics

General Chemistry 2:
CHEM 1133/1134
Offered fall, spring, and summer

Human Physiology: IPHY 3430-4
Offered fall, spring, and summer
Pre-req: IPHY 3410
Co-req: CHEM 1133/1134

Physics 1
Offered fall, spring, and summer
Pre-req: IPHY 3430
Algebra-based: PHYS 2010
Calculus-based: PHYS 1110

Physiology Lab: IPHY 3435-2 or IPHY 3437-2
Offered fall, spring, and summer
Pre-req: Statistics
Pre-req or co-req: IPHY 3430

IPHY Core Courses & Prerequisites
(15 hours of courses, C- or better required)

Immunology: IPHY 4600-3
Offered fall, spring, and summer
Pre-req: IPHY 3430
Course component: Lecture

Sleep Physiology: IPHY 4580-3
Offered fall and spring
Pre-req: IPHY 3430
Course component: Lecture

Biomechanics: IPHY 4540-5
Offered fall and spring
Pre-req: IPHY 3430 and PHYS 1110 or 2010
Course components: Lecture, recitation, and lab

Cell Physiology: IPHY 4060-4
Offered fall only
Pre-req: IPHY 3430 and IPHY 3435
Course components: Lecture and lab

Endocrinology: IPHY 4440-4
Offered fall, spring, and summer
Pre-req: IPHY 3430 and IPHY 3435
Course components: Lecture and recitation

Neurophysiology: IPHY 4720-4
Offered fall, spring, and summer
Pre-req: IPHY 3430 and IPHY 3435
Course components: Lecture and lab

Exercise Physiology: IPHY 4650-5
Offered fall and spring
Pre-req: IPHY 3430 and IPHY 3435
Course components: Lecture, recitation, and lab

*Summer course availability is subject to change.

Additional courses may be needed to reach 30 hours of IPHY. See your academic advisor to develop an individualized plan to complete the major.