## College of Science

DEPARTMENT OF

## Bachelor of Science with a Major in Physics in Medicine

Students following the physics in medicine major program will gain a basic broad understanding of the concepts of physics, as well as a foundation for medical school. The program requires completion of 77 science credits total.

Students following the Physics in Medicine major are not allowed to add concentrations; the major program is already designed to accommodate the special interests of those students intending careers in medicine.

## Requirements for the Core Physics in Medicine Major (32.5 Credits)

| Course Title | Course Number | Credits | Semester <br> Offered | Check <br> (Year) |
| :--- | :--- | :--- | :--- | :--- |
| Physics A Lab: Mechanics | $10411 / 11411(10310 / 11310)$ | 4 | Fall | FY |
| Physics B Lab: Electricity \& Mag | $10422 / 11422(10320 / 11320)$ | 4 | Spring | FY |
| Physics C: Thermo \& Relativity | 20433 | 3 | Fall | Soph |
| Intro Circuitry and Electronics | 20430 | 1.5 | Fall | Soph |
| Math Methods in Phys I/Tutorial | $20451 / 22451$ | 3.5 | Fall | Soph |
| Sophomore Seminar | 23411 | 1 | Fall | Soph |
| Math Methods in Phys II/Tutorial | $20452 / 22452$ | 3.5 | Spring | Soph |
| Intermediate Mechanics | 20454 | 3 | Spring | Soph |
| Physics D: Modern | 20444 | 3 | Spring | Soph |
| Electricity \& Magnetism | 30471 | 3 | Fall | Jr |
| Quantum Mechanics I | $40453(30465,50602,50501$ or 50701$)$ | 3 | Fall | Sr |

*Intro Circuitry and Electronics is considered a co-requisite of General Physics C-M. General Physics C-M and Modern Physics I are a
continuous 1 -year sequence and have to be started fall of sophomore year.
Non-Physics Courses (35.5 Credits)

| Course Title | Course Number | Credits | Semester <br> Offered | Check <br> (Year) |
| :--- | :--- | :--- | :--- | :--- |
| Biology I: Big Questions/Lab | BIOS 10171/11173 | 4 | Fall | FY |
| Intro Chemical Principles/Lab | CHEM 10171/11171 (CHEM 10117 or 10181) | 4 | Fall | FY |
| Calculus I/Tutorial | MATH 10550/12550 (MATH 10850) | 4 | Both | FY |
| Biology II: Molec to Ecos/Lab | BIOS 10172/11174 | 4 | Spring | FY |
| Organic Struct \& Mechanisms | CHEM 10172/11172 (CHEM 10118 or 10182) | 4 | Spring | FY |
| Calculus II/Tutorial | MATH 10560/12560 (MATH 10860) | 4 | Both | FY |
| Organic Reactions \& Apps | CHEM 20273/21273 (CHEM 20223 or 20283) | 4 | Fall | Soph |
| Calculus III/Tutorial | MATH 20550/22550 (MATH 20850 \& 20860) | 3.5 | Fall | Soph |
| Advanced General Chemistry | CHEM 20274/21274 (CHEM 20224 or 20284) | 4 | Both | Soph |

[^0] math sequence you should stay with it if possible).

In addition, PHIM majors must complete 9 credits of Science Electives to be chosen from the following list:

| Course Title | Course Number | Credits | Semester <br> Offered | Check <br> (Year) |
| :--- | :--- | :--- | :--- | :--- |
| Medical Physics | PHYS 40371 | 3 | Fall | FY |
| Physics of Cells | PHYS 50401 | 3 | Fall | FY |
| Fundamentals of Genetics | BIOS 20303 | 3 | Spring | FY |
| Vertebrate Physiology | BIOS 30344 | 3 | Both | FY |
| Cellular Biology | BIOS 30341 | 3 | Both | FY |
| Principles of Biochemistry | CHEM 40420 | 3 | Both | FY |

Other college and university requirements to be completed, one of which must be a University Seminar:

| Requirement | Check |
| :--- | :--- |
| Foreign Language (Intermediate level) |  |
| First-Year Composition |  |
| Philosophy Requirement |  |
| Theology Requirement |  |
| History Requirement |  |
| Social Sciences Requirement |  |
| Literature/Fine Arts Requirement |  |

## Science Requirements

Not all science courses will count toward degree credit or science elective credit for science majors. The survey science courses offered as options for non-science majors for their University science requirement will not count as a science elective or toward the minimum science credit hour requirement.

All College of Science courses offered by a major program must be taken at the University of Notre Dame. If a student wants to take a course outside Notre Dame for credit toward the Notre Dame degree, prior approval of the dean's office must be obtained. This does not apply to the courses taken by a transfer student prior to attending Notre Dame.

## Language Requirements

The College of Science requires language proficiency through intermediate level in one of the following languages: Arabic, Chinese, French, German, Greek, Irish, Italian, Japanese, Korean, Latin, Portuguese, Russian and Spanish. Students may complete the language requirement by either completing a course taught at intermediate level or by demonstrating proficiency through placement examination.

## Study Abroad

The spring semester of the Junior year is the preferred time for a semester abroad or for taking Literature and Fine Arts electives.

## *Ask about the Physics honors track!


[^0]:    *Courses in parentheses may substitute as indicated, though students are encouraged not to mix and match (for example, if you start with the

