

Mathematics and Physics

Department Information

- **Department Phone:**
701-231-8171 or 8974
- **Department Web Site:**
www.ndsu.edu/math/ or www.ndsu.edu/physics/ (<http://www.ndsu.edu/math/> or www.ndsu.edu/physics/)
- **Credential Offered:**
B.S.; B.A.
- **Official Program Curriculum:**
catalog.ndsu.edu/undergraduate/program-curriculum/mathematics-physics/ (<http://catalog.ndsu.edu/undergraduate/program-curriculum/mathematics-physics/>)

This dual major program is intended for students who desire additional mathematical background and preparation for graduate school or technical careers in the sciences, especially theoretical physics.

Sample Program Guide

IMPORTANT DISCLAIMER: A Sample Program Guide provides an unofficial guide of program requirements and should be used by prospective students who are considering attending NDSU in the future. It is NOT an official curriculum and should NOT be used by current NDSU students for official degree planning purposes. Note that the official curriculum used by current NDSU students can vary from the Sample Program Guide due to a variety of factors such as, but not limited to, start year, education goals, transfer credit, and course availability.

To ensure proper program completion, enrolled students should utilize Degree Map (<https://www.ndsu.edu/registrar/degreemap/>) and Schedule Planner (<https://www.ndsu.edu/onestop/degree-map-and-planning/>) in Campus Connection and consult regularly with their academic advisor to ensure requirements are being met.

| Freshman | | | |
|---|---------|---|-----------|
| Fall | Credits | Spring | Credits |
| ENGL 110 | | 3 PHYS 251 & 251L | 5 |
| PHYS 171 | | 1 MATH 166 | 4 |
| MATH 165 ¹ | | 4 CHEM 151 & CHEM 161 (or CHEM 122 & CHEM 122L) | 4 |
| CHEM 150 & CHEM 160 (or CHEM 121 & CHEM 121L) | | 4 ENGL 120 | 3 |
| MATH 129 | | 3 | |
| COMM 110 | | 3 | |
| | | 18 | 16 |
| Sophomore | | | |
| Fall | Credits | Spring | Credits |
| PHYS 252 & 252L | | 5 PHYS 350 | 3 |
| MATH 265 | | 4 MATH 266 | 3 |
| MATH 270 | | 3 CSCI 160 | 4 |
| Gen Ed Humanities/Fine Arts & Global Perspectives | | 3 Gen Ed Social/Behavioral Science & Cultural Diversity | 3 |
| Humanities or Social Science College Requirement | | 3 Gen Ed Wellness | 2 |
| | | MATH 346 | 3 |
| | | 18 | 18 |

| Junior | | | |
|---|----------------|---|----------------|
| Fall | Credits | Spring | Credits |
| PHYS 360 | | 3 PHYS 361 | 3 |
| MATH 420 | | 3 PHYS 370 | 3 |
| PHYS 355 | | 3 ENGL 324 | 3 |
| MATH 420, 450, 452, or 483 ² | | 3 MATH 420, 450, 452, or 483 ² | 3 |
| Gen Ed Humanities/Fine Arts | | 3 MATH 329 | 3 |
| Humanities or Social Science College Requirement | | 3 | |
| | | 18 | 15 |
| Senior | | | |
| Fall | Credits | Spring | Credits |
| PHYS 462 | | 3 PHYS 486 | 3 |
| PHYS 485 | | 3 PHYS 489 | 2 |
| Physics Elective | | 6 Physics Elective | 3 |
| MATH 4XX Math Elective | | 3 MATH 491 | 2 |
| PHYS 488 | | 1 Gen Ed Social & Behavioral Sciences | 3 |
| | | Gen Ed Upper Division Writing | 3 |
| | | 16 | 16 |

Total Credits: 135

1

Students who place into a math course lower than MATH 165 may need to extend their time to degree completion by up to a year.

2

Math Elective: Student must select two classes from the grouping