

Certificate in Science Teaching Physics

From the study of basic forces to investigating the farthest reaches of the universe, this certificate allows the student to meet varying interests or focus on a single area, such as mechanical physics or astronomy.

Complete 12 credits selected from the below list, or other approved credits from the MS in Science Education (MSSE) Program Course Catalog (<https://www.montana.edu/msse/course-catalog/>):

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| EELE 508 | Solar Cell Basics for Teachers (Summer-On Campus) | 2 |
| PHSX 511 | Astronomy for Teachers (Fall-Online) | 3 |
| PHSX 512 | General Relativity Online (Spring-Online) | 3 |
| PHSX 513 | Quantum Mechanics Online (Summer-Online) | 3 |
| PHSX 514 | Comparative Planetology Online (Fall-Online) | 3 |
| PHSX 571 | Electric Circuits and Magnetism for Teachers (Summer-Online) | 3 |
| PHSX 572 | Space Science for Elementary Teachers (Fall-Odd Years-Online) | 1 |
| PHSX 573 | The Science of Sound for Teachers (Spring-Online) | 2 |
| PHSX 574 | World of Motion & Force for Elem/MS Teachers (Summer-Online) | 2 |
| PHSX 579 | Special Relativity for Teachers (Fall-Online) | 3 |
| PHSX 580 | Conceptual Physics for Teachers (Summer-Online) | 3 |
| PHSX 582 | Astrobiology for Teachers Online (Spring-Online) | 3 |
| PHSX 584 | Physics by Inquiry: Light & Color for Teachers (Summer-Odd Years-On Campus) | 2 |
| PHSX 586 | Physics by Inquiry: Heat & Temperature for Teachers (Summer-Even Years-On campus) | 2 |
| PHSX 587 | Physics by Inquiry: Geometric Optics for Teachers (Summer-Odd Years-On campus) | 2 |
| PHSX 597 | Physics of Renewable Energy for Teachers (Summer-Online) | 3 |