*Content Area Prerequisites Course Equivalents*

**Number** P311 **Credits** 3

**Course Title** Optics

**Description** This course is a study of classical and modern optics including geometrical optics, wave properties of lights, the interaction of light and matter, and quantum optics. Modern experimental techniques involving optical phenomena will also be covered. Offered in alternate years.

**Number Course Title Distance Credits School**

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| PHYS 4711 | Introduction to Optics | Traditional | 3 | University of Minnesota |
| PHYS 370 | Optics | Traditional | 4 | Winona State University |
| PHYS 333 | Optics | Traditional | 3 | St. Cloud State University |
| PHYS 420 | Optics | Traditional | 4 | University of Wisconsin River Falls |
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