# PHYSICS, MINOR

Saint Louis University offers minors in physics through both the College of Arts and Sciences and Parks College of Engineering, Aviation and Technology.

The minor through the College of Arts and Sciences requires 18 credits of physics; the minor at Parks College requires 22 credits of physics.

## Requirements

### Program Requirements (Arts & Science)

| Code | Title | Credits |
|---|---|---|
| **Required Courses** | | |
| PHYS 1610 & PHYS 1620 | Engineering Physics I and Engineering Physics I Laboratory | 4 |
| PHYS 1630 & PHYS 1640 | Engineering Physics II and Engineering Physics II Laboratory | 4 |
| PHYS 2610 & PHYS 2620 | Modern Physics and Modern Physics Lab | 4 |
| **Elective Courses** | | |
| Select two of the following: | | 6 |
| PHYS 3110 | Classical Mechanics | |
| PHYS 3120 | Advanced Classical Mechanics | |
| PHYS 3310 | Optics | |
| PHYS 3320 | Optics Laboratory | |
| PHYS 3410 | Thermodynamics and Statistical Mechanics | |
| PHYS 3510 | Analog & Digital Electronics | |
| PHYS 3610 | Modern Physics II | |
| PHYS 3860 | Physics Research I | |
| PHYS 3910 | Co-Op with Industry | |
| PHYS 3915 | Internship with Industry | |
| PHYS 3980 | Independent Study | |
| PHYS 4010 | Nanoscience and Nanofabrication Frontiers | |
| PHYS 4020 | Experimental Physics | |
| PHYS 4030 | Mathematical Methods in Physics with elements of Classical Mechanics | |
| PHYS 4060 | Numerical Analysis and Computational Physics | |
| PHYS 4110 | Intro to Biophysics | |
| PHYS 4210 | Electricity & Magnetism I | |
| PHYS 4220 | Electricity & Magnetism II | |
| PHYS 4410 | General Relativity | |
| PHYS 4610 | Quantum Mechanics | |
| PHYS 4620 | Application of Quantum Mechanics | |
| PHYS 4840 | Senior Inquiry: Thesis | |
| PHYS 4870 | Physics Research II | |
| PHYS 4880 | Senior Inquiry: Research Project | |
| PHYS 4890 | Senior Inquiry: Comprehensive Examination | |
| PHYS 4910 | Co-Op with Industry | |
| PHYS 4915 | Internship with Industry | |
| PHYS 4930 | Special Topics | |
| Total Credits | | 18 |

### Program Requirements (Parks)

| Code | Title | Credits |
|---|---|---|
| **Required Courses** | | |
| PHYS 1610 & PHYS 1620 | Engineering Physics I and Engineering Physics I Laboratory | 4 |
| PHYS 1630 & PHYS 1640 | Engineering Physics II and Engineering Physics II Laboratory | 4 |
| PHYS 2610 & PHYS 2620 | Modern Physics and Modern Physics Lab | 4 |
| **Elective Courses** | | |
| Select three of the following (one with lab): | | 10 |
| PHYS 3110 | Classical Mechanics | |
| PHYS 3120 | Advanced Classical Mechanics | |
| PHYS 3310 | Optics | |
| PHYS 3320 | Optics Laboratory | |
| PHYS 3410 | Thermodynamics and Statistical Mechanics | |
| PHYS 3510 | Analog & Digital Electronics | |
| PHYS 3610 | Modern Physics II | |
| PHYS 3860 | Physics Research I | |
| PHYS 3910 | Co-Op with Industry | |
| PHYS 3915 | Internship with Industry | |
| PHYS 3980 | Independent Study | |
| PHYS 4010 | Nanoscience and Nanofabrication Frontiers | |
| PHYS 4020 | Experimental Physics | |
| PHYS 4030 | Mathematical Methods in Physics with elements of Classical Mechanics | |
| PHYS 4060 | Numerical Analysis and Computational Physics | |
| PHYS 4110 | Intro to Biophysics | |
| PHYS 4210 | Electricity & Magnetism I | |
| PHYS 4220 | Electricity & Magnetism II | |
| PHYS 4410 | General Relativity | |
| PHYS 4610 | Quantum Mechanics | |
| PHYS 4620 | Application of Quantum Mechanics | |
| PHYS 4840 | Senior Inquiry: Thesis | |
| PHYS 4870 | Physics Research II | |
| PHYS 4880 | Senior Inquiry: Research Project | |
| PHYS 4890 | Senior Inquiry: Comprehensive Examination | |
| PHYS 4910 | Co-Op with Industry | |
| PHYS 4915 | Internship with Industry | |
| PHYS 4930 | Special Topics | |
| Total Credits | | 22 |

### Continuation Standards

Students must have a grade point average (GPA) of 2.00 in Physics minor coursework to be retained in the minor.