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)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1610 &amp; PHYS 1620</td>
<td>Engineering Physics I and Engineering Physics I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1630 &amp; PHYS 1640</td>
<td>Engineering Physics II and Engineering Physics II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2610 &amp; PHYS 2620</td>
<td>Modern Physics and Modern Physics Lab</td>
<td>4</td>
</tr>
</tbody>
</table>

Elective Courses
Select two of the following:

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)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1610 &amp; PHYS 1620</td>
<td>Engineering Physics I and Engineering Physics I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1630 &amp; PHYS 1640</td>
<td>Engineering Physics II and Engineering Physics II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2610 &amp; PHYS 2620</td>
<td>Modern Physics and Modern Physics Lab</td>
<td>4</td>
</tr>
</tbody>
</table>

Elective Courses
Select three of the following (one with lab):

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.