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## LaGrange College

### Course Catalog - Physics

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#### **PHYS 1101 - Introductory Physics I**

A non-calculus-based introduction to kinematics, dynamics, energy, momentum, rotational dynamics, fluid mechanics, periodic motion, wave mechanics, and thermodynamics.

**Grade Basis:** L

**Credit hours:** 3.0

**Lecture hours:** 3.0

**Prerequisites:**

- [MATH 1221](#) - Precalculus
- 

#### **PHYS 1101L - Introductory Physics I Lab**

A laboratory to accompany PHYS1101. Physics is a science of measurement, testing, and experimentation—inquiry-based laboratories make physics come to life!

**Grade Basis:** L

**Credit hours:** 1.0

**Lecture hours:** 3.0

**Restrictions:**

- PHYS1101 must be taken as corequisite.
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## **PHYS 1102L - Introductory Physics II**

A continuation of PHYS 1101 and an introduction to electricity and magnetism, electric circuits, and light and optics.

**Grade Basis:** L

**Credit hours:** 3.0

**Lecture hours:** 3.0

**Prerequisites:**

- [PHYS 1101](#) - Introductory Physics I

**Restrictions:**

- Offered in Spring terms
- 

## **PHYS 1102L - Introductory Physics II Lab**

A laboratory to complement PHYS1102. Physics is a science of measurement, testing, and experimentation—inquiry-based laboratories make physics come to life!

**Grade Basis:** L

**Credit hours:** 1.0

**Lecture hours:** 3.0

**Prerequisites:**

- [PHYS 1101L](#) - Introductory Physics I Lab

**Restrictions:**

- PHYS1102 must be taken as corequisite.
  - Offered in Spring terms
- 

## **PHYS 2121 - General Physics I**

A calculus-based introduction to dynamics, energy, momentum, rotational dynamics, fluid mechanics, periodic motion, wave mechanics, and thermodynamics.

**Grade Basis:** L

**Credit hours:** 3.0

**Lecture hours:** 3.0

**Restrictions:**

- MATH2222 must be taken as pre-requisite or co-requisite.
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## PHYS 2121L - General Physics I Lab

A calculus-based introduction to dynamics, energy, momentum, rotational dynamics, fluid mechanics, periodic motion, wave mechanics, and thermodynamics.

**Grade Basis:** L

**Lecture hours:** 3.0

**Restrictions:**

- MATH2222 must be Prerequisite or Corequisite
  - Offered in Fall terms
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## PHYS 2122 - General Physics II

A continuation of PHYS 2121, covering electricity and magnetism, electric circuits, and light and optics.

**Grade Basis:** L

**Credit hours:** 3.0

**Lecture hours:** 3.0

**Prerequisites:**

- [PHYS 2121](#) - General Physics I

**Restrictions:**

- Offered in Spring terms
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## PHYS 2122L - General Physics II Lab

As physics is an experimental science with a focus on measurement, testing and experimentation, this course provides an inquiry-based laboratory experience.

**Grade Basis:** L

**Credit hours:** 1.0

**Lecture hours:** 3.0

**Prerequisites:**

- [PHYS 2121L](#) - General Physics I Lab

**Restrictions:**

- PHYS2122 must be taken as corequisite.
  - Offered in Spring terms
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