

## Course Information

Course  
Title

Current Links

PHYS 1000  
New Student Seminar

PHYS 1101

Introductory Physics

Syllabus (Sharma-001)

Syllabus (Sharma-002)

Schedule (Sharma-001/2)

Syllabus (Davies-A03)

PHYS 1101L  
Introductory Physics I Laboratory

Syllabus

Schedule

PHYS 1102

Introductory Physics II

Syllabus

Schedule

PHYS 1102L

Introductory Physics II Laboratory

Syllabus

Schedule

PHYS 1130

Introduction to Astronomy

Syllabus (Tyson-001)

Syllabus (Benchich-002)

Syllabus (Benchich-092)

Syllabus (Trammell-003)

PHYS 1130L

Introduction to Astronomy Laboratory

Syllabus

PHYS 1201

Sports and Physics

Syllabus

PHYS 1201L

Sports and Physics Laboratory

Syllabus

PHYS 1202  
Introduction to Physics in Medicine

Syllabus

PHYS 1203

Physics of Music

Syllabus

PHYS 1203L

Physics of Music Laboratory

Syllabus

PHYS 2101

Physics for Science and Engineering I

Syllabus (Leilabady-001/2/4)

Syllabus (Gerges-092)

PHYS 2101L

Physics for Science and Engineering I Laboratory

Syllabus

Schedule

PHYS 2102  
Physics for Science and Engineering II

Syllabus (Leilabady-001)

Syllabus (Astratov-002)

Syllabus (Aktas-092)

PHYS 2102L  
Physics for Science and Engineering II Laboratory

Syllabus  
Schedule

LBST 2213  
From Chaos to Consciousness

Syllabus

PHYS 3000  
Topics in Physics

PHYS 3101  
Topics and Methods of General Physics

Syllabus

PHYS 3121

Classical Mechanics I

Syllabus

PHYS 3141

Introduction to Modern Physics

Syllabus

PHYS 3151

Thermal Physics

PHYS 3160

Astrophysics I (Stellar Astrophysics)

PHYS 3161

Astrophysics II (Interstellar Matter and Galaxies)

Syllabus

PHYS 3282

Advanced Laboratory in Modern Physics

Syllabus

Lab Manual

PHYS 3283

Advanced Laboratory in Classical Physics

PHYS 3400

Internship in Community Education and Service

PHYS 3590

Physics Cooperative Education and Internship Experience

PHYS 3900

Senior Project

PHYS 4000

Selected Topics in Physics

PHYS 4140

Nuclear Physics

PHYS 4181

Solid State and Semiconductor Physics Laboratory

PHYS 4210

Theoretical Physics

PHYS 4222

Classical Mechanics II

PHYS 4231

Electromagnetic Theory I

Syllabus

PHYS 4232

Electromagnetic Theory II

Syllabus

PHYS 4241

Quantum Mechanics I

PHYS 4242

Quantum Mechanics II

PHYS 4271

Waves and Optics

PHYS 4281

Advanced Laboratory in Modern Optics

PHYS 4350

Teaching and Learning Physics

PHYS 4800

Investigations

PHYS 5000

Selected Topics in Physics

PHYS 5220

Computational Methods in Physics

PHYS 5222

Classical Mechanics II

PHYS 5231

Electromagnetic Theory I

Syllabus

PHYS 5232

Electromagnetic Theory II

Syllabus

PHYS 5242  
Modern Physics II

PHYS 5271

Principles of Geometrical and Physical Optics

PHYS 5350

Teaching and Learning Physics

OPTI 6000

Selected Topics in Optics

Syllabus

PHYS 6101

Biophysics

Syllabus

OPTI 6101  
Mathematical Methods of Optical Science and Engineering

OPTI 6102  
Principles of Geometrical and Physical Optics

OPTI 6103  
Light Sources and Detectors

OPTI 6104  
Electromagnetic Waves

Syllabus

OPTI 6105  
Optical Properties of Materials

OPTI 6110

Seminar

PHYS 6121

Classical Dynamics

PHYS 6131

Classical Electromagnetism I

PHYS 6132

Classical Electromagnetism II

PHYS 6141

Quantum Theory I

PHYS 6142

Quantum Theory II

PHYS 6201

Fourier Optics

OPTI 6201  
Fourier Optics and Holography

OPTI 6205  
Advanced Optical Materials

PHYS 6210

Theoretical Physics

PHYS 6211

Introduction to Modern Optics

Syllabus

OPTI 6211  
Introduction to Modern Optics

Syllabus

OPTI 6212  
Integrated Photonics

Syllabus

PHYS 6220

Computational Methods in Physics

PHYS 6221

Optical Communications I

Syllabus

OPTI 6221  
Optical Communications

Syllabus

OPTI 6222  
Optical Communication Networks

PHYS 6241

Light Sources and Detectors

OPTI 6241  
Optical System Function and Design

OPTI 6242  
Optical Propagation in Inhomogeneous Media

OPTI 6244  
High Speed Photonics and Optical Instrumentation

PHYS 6251

Statistical Physics

PHYS 6261

Nuclear Physics

OPTI 6261  
Modern Coherence Theory

Syllabus

PHYS 6271

Advanced Solid State Physics

OPTI 6271  
Advanced Physical Optics

Syllabus

PHYS 6281

Modern Optics Laboratory

OPTI 6281  
Modern Optics Laboratory

PHYS 6301

Radiation Detection, Instrumentation, and Data Analysis

PHYS 6302

Radiation Protection and Dosimetry

PHYS 6303

Imaging in Medicine

PHYS 6304

Physics of Diagnostic Radiology and Radiotherapy

PHYS 6401

Clinical Medical Physics

OPTI 6691  
Research Seminar I

PHYS 6991

Physics Thesis Research I

OPTI 6991

Thesis Research

PHYS 6992

Physics Thesis Research II

PHYS 7999

Master's Degree Graduate Residency Credit

OPTI 7999

Master's Degree Graduate Residency Credit

OPTI 8000

Selected Topics in Optics

Syllabus

PHYS 8101

Biophysics

OPTI 8101

Mathematical Methods of Optical Science and Engineering

OPTI 8102

Principles of Geometrical and Physical Optics

OPTI 8103

Light Sources and Detectors

OPTI 8104

Electromagnetic Waves

Syllabus

OPTI 8105

Optical Properties of Materials

OPTI 8110  
Seminar

OPTI 8201

Fourier Optics and Holography

OPTI 8205

Advanced Optical Materials

OPTI 8211

Introduction to Modern Optics  
Syllabus

OPTI 8212

## Integrated Photonics

Syllabus

OPTI 8221

Optical Communications  
Syllabus

OPTI 8222

Optical Communication Networks

OPTI 8241  
Optical System Function and Design

OPTI 8242

Optical Propagation in Inhomogeneous Media

OPTI 8244

High Speed Photonics and Optical Instrumentation

OPTI 8261

Modern Coherence Theory

Syllabus

OPTI 8271

Advanced Physical Optics  
Syllabus

OPTI 8281

Modern Optics Laboratory

OPTI 8691

Research Seminar I

OPTI 8991

Dissertation Research

OPTI 9999

Doctoral Degree Graduate Residency Credit