PHSX - Physics

PHSX 205. College Physics I. 4 Credits. (3 Lec, 1 Lab) F.S,Su
PREREQUISITE: High school trigonometry or M 151Q. First semester of sequence. Topics include kinematics and dynamics of linear and rotational motion; work and energy; impulse and momentum; and fluids. Students will not receive credit if they have passed PHSX 222 or PHSX 240. Common exams.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2018 Summer | 10347 | 001 | May Start | MTWR | BARNAH103 | 9:00am - 9:50am
2018 Summer | 10347 | 001 | May Start | MTWR | BARNAH103 | 11:00am - 11:50am
2018 Summer | 10347 | 001 | May Start | MTWR | BARNAH103 | 1:10pm - 2:00pm
2018 Summer | 10348 | 002 | May Start | MTWR | AJM137 | 2:10pm - 4:00pm
2018 Summer | 10349 | 003 | May Start | MTWR | AJM137 | 4:10pm - 6:00pm
2018 Summer | 10537 | 004 | May Start | MTWR | AJM137 | 6:10pm - 8:00pm

PHSX 207. College Physics II. 4 Credits. (3 Lec, 1 Lab) F.S,Su
PREREQUISITE: PHSX 205 or PHSX 220. Second semester of sequence. Topics include simple harmonic motion; electric forces and fields; dc electric circuits; magnetic forces and fields; and magnetic induction and motors. Students will not receive credit if they have passed PHSX 222 or PHSX 242. Common exams.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2018 Summer | 11582 | 004 | June-start: 4x4 | - | - | -
2018 Summer | 10350 | 001 | June-start: 4x4 | MTWR | BARNAH103 | 12:00pm - 12:50pm
2018 Summer | 10350 | 001 | June-start: 4x4 | MTWR | BARNAH103 | 2:00pm - 2:50pm
2018 Summer | 10350 | 001 | June-start: 4x4 | MTWR | BARNAH103 | 4:00pm - 4:50pm
2018 Summer | 10351 | 002 | June-start: 4x4 | MTWR | AJM137 | 6:10pm - 8:00pm
2018 Summer | 10558 | 003 | June-start: 4x4 | MTWR | AJM138 | 6:10pm - 8:00pm

PHSX 220. Physics I (w/ calculus). 4 Credits. (3 Lec, 1 Lab) F.S,Su
COREQUISITE: M 171Q or M 181Q First semester of a three-semester sequence primarily for engineering and physical science students. Covers topics in mechanics (such as motion, Newton's laws, conservation laws, work, energy, systems of particles, and rotational motion) and in mechanical waves (such as oscillations, wave motion, sound, and superposition). Common exams.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2018 Summer | 11032 | 001 | May Start | MTWR | BARNAH108 | 8:30am - 10:00am
2018 Summer | 11032 | 001 | May Start | MTWR | BARNAH108 | 3:00pm - 4:30pm
2018 Summer | 11033 | 002 | May Start | MTWR | AJM138 | 10:10am - 12:00pm
2018 Summer | 11034 | 003 | May Start | MTWR | AJM138 | 12:10pm - 2:00pm
2018 Summer | 11580 | 004 | May Start | MTWR | AJM138 | 6:10pm - 8:00pm

PHSX 222. Physics II (w/ calculus). 4 Credits. (3 Lec, 1 Lab) F.S,Su
PREREQUISITE: PHSX 220 or PHSX 240; M 171Q or M 181Q. COREQUISITE: M 172Q or M 182Q. Covers topics in electricity and magnetism (such as Coulomb's law, Gauss' law, electric fields, electric potential, dc circuits, magnetic fields, Faraday's law, ac circuits, and Maxwell's equations) and optics (such as light, geometrical optics, and physical optics). Common exams.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2018 Summer | 11581 | 004 | June-start: 4x4 | MTWR | AJM146 | 6:10pm - 8:00pm
2018 Summer | 11035 | 001 | June-start: 4x4 | MTWR | BARNAH108 | 8:30am - 10:00am
2018 Summer | 11035 | 001 | June-start: 4x4 | MTWR | BARNAH108 | 3:00pm - 4:30pm
2018 Summer | 11036 | 002 | June-start: 4x4 | MTWR | AJM146 | 10:10am - 12:00pm
2018 Summer | 11037 | 003 | June-start: 4x4 | MTWR | AJM146 | 12:10pm - 2:00pm

PHSX 224. Physics III. 4 Credits. (3 Lec, 1 Lab) F.S,Su
PREREQUISITE: PHSX 220 or PHSX 242; M 172Q or M 182Q. Covers topics in thermodynamics (such as temperature, heat, laws of thermodynamics, and the kinetic theory of gases) and modern physics (such as relativity; models of the atom; quantum mechanics; and atomic, molecular, solid state, nuclear, and particle physics).

Term | CRN | Section | Session/Dates | Days | Location | Time
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2018 Summer | 11492 | 003 | July-start: 4x4 | MTWR | AJM137 | 12:10pm - 2:00pm
2018 Summer | 11038 | 001 | July-start: 4x4 | MTWR | BARNAH103 | 8:30am - 10:00am
2018 Summer | 11038 | 001 | July-start: 4x4 | MTWR | BARNAH103 | 3:00pm - 4:30pm
2018 Summer | 11039 | 002 | July-start: 4x4 | MTWR | AJM137 | 10:10am - 12:00pm

PHSX 401. Physics by Inquiry I. 3 Credits. (3 Lab) Su
PREREQUISITE: Teacher Certification. An in-depth and hands-on exploration of basic physics principles. Scientific model building and proportional reasoning skills will be developed in the context of dc electrics, one and two dimensional kinematics, and dynamics. For middle school and high school science teachers.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2018 Summer | 11219 | 001 | Non-standard | - | - | -

PHSX 403. Physics by Inquiry III. 3 Credits. (3 Lab) Su
PREREQUISITE: Science Teacher Certification. COREQUISITE: PHSX 401. PHSX 403 is a continuation of the PHSX 401 experience, but it may also be taken concurrently with PHSX 401. The course will begin with a careful investigation of geometrical optics, leading to an understanding of pinhole cameras, lenses, and prisms. This will be followed by an exploration of magnetic interactions and magnetic materials.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2018 Summer | 11005 | 001 | Non-standard | - | - | -

PHSX 491. Special Topics. 1-4 Credits. (1-4 Lec; 12 cr max) On Demand
Max 12 cr. PREREQUISITE: Course prerequisites as determined for each offering. Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2018 Summer | 10345 | 801 | Intercession | - | - | -
PHSX 511. Astronomy for Teachers. 3 Credits. (3 Rct) F.S.Su
PREREQUISITE: Graduate standing; Currently certified middle and high school teachers with one year of teaching experience. This is an online, distance education course primarily intended for science educators. Topics include: the laws of gravity and orbital dynamics, a survey of the solar system, stars and stellar evolution, galaxies, and Big Bang cosmology.

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PHSX 513. Quantum Mechanics Online. 3 Credits. (3 Lec) Su alternate years, to be offered even years.
PREREQUISITE: Graduate standing; Currently certified high school teachers with one year of teaching experience; an introductory physics course; and a working knowledge of elementary differential and integral calculus. This online course addresses the key ideas behind quantum mechanical observations and devices, including the fundamental behavior of electrons and photons. Designed for practicing high school physics teachers. Assignments and discussions use electronic computer conferencing and simulation software.

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PHSX 591. Special Topics. 1-4 Credits. (1 Lec; 12 cr max) On Demand
Max 12 cr. PREREQUISITE: Upper division courses and others as determined for each offering. Courses not required in any curriculum for which there is a particular one time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

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Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.