

DEPARTMENT OF ENGINEERING PHYSICS

SAMPLE CLASS OFFERINGS BY QUARTER

NOTE: Department Seminar, Special Studies, Prospectus Research and Degree Research Courses are not included in this listing, but are offered quarterly

Fall Quarter:

BIOL 597 - Biological Weapons Effects and Technology
CHEM 597 - Chemical Weapons: Materials, Effects, and Technology
CWMD 597 - Combating Weapons of Mass Destruction Engineering Practicum
MATL 560 - Electronic, Magnetic and Optical Properties of Materials
NENG 585 - Introduction to Modern FORTRAN with Applications in Computational Nuclear Engineering
NENG 597 - Nuclear Weapons Effects, Technology and Non-Proliferation
NENG 651 - Nuclear Physics
NENG 705 - Methods of Radiation Transport
NENG 785 - Topics in Computational Nuclear Engineering
NENG 816 - Advanced Topics in Neutral Particle Transport
PHYS 519 - The Space Environment
PHYS 570 - Physics of Solid State Devices
PHYS 601 - Electrodynamics I
PHYS 620 - Physics of Laser Effects
PHYS 640 - Optics
PHYS 655 - Quantum Mechanics I
PHYS 730 - Electrodynamics II
PHYS 755 - Quantum Mechanics II
PHYS 771 - Solid State Physics II
PHYS 775 - Ionospheric Physics and Chemistry
PHYS 776 - Structure and Dynamics of the Magnetosphere

Winter Quarter:

CHEM 581 - Introduction to Nuclear Fuel Cycles
CHEM 597 - Chemical Weapons: Materials, Effects, and Technology
CHEM 850 - Molecular Orbital Theory
CWMD 791 - Proliferation of Weapons of Mass Destruction
METG 511 - Atmospheric Physics for Engineers and Scientists
METG 612 - Cloud Physics
NENG 605 - Physics of Nuclear Explosives
NENG 650 - Nuclear Instrumentation
NENG 720 - Nuclear Reactor Systems
NENG 791 - Proliferation of Weapons of Mass Destruction
OENG 520 - Lasers for Engineers
OENG 644 - Linear Systems and Fourier Optics
OENG 650 - Optical Radiometry and Detection
OENG 660 - Introduction to Non-Linear Optical Devices
OENG 681 - Digital Image Processing
OENG 720 - Laser Devices and Applications
PHYS 519 - The Space Environment
PHYS 521 - Space Surveillance
PHYS 624 - High Power Microwave Systems
PHYS 635 - Thermal Physics
PHYS 661 - Atomic and Molecular Spectroscopy
PHYS 735 - Statistical Physics
PHYS 740 - Optics II

Spring Quarter:

CHEM 720 - Kinetics of Fast Reactions
EVSC 560 - Environmental Monitoring
MATL 525 - Thermodynamics and Kinetics of Materials
MATL 680 - Materials Characterization
METG 611 - Atmospheric and Space Environmental Effects on Electromagnetic Propagation
NENG 631 - Prompt Effects of Nuclear Weapons
NENG 660 - Radiation Effects on Electronics
NENG 685 - Computational Nuclear Engineering
NENG 705 - Methods of Radiation Transport
NENG 725 - Monte Carlo Methods of Radiation Transport
NENG 830 - Advanced Nuclear Weapons Effects
OENG 620 - Laser Engineering
OENG 650 - Optical Radiometry and Detection
OENG 681 - Digital Image Processing
OENG 780 - Infrared Technology
PHYS 542 - Optics Laboratory
PHYS 598 - Engineering Physics Seminar
PHYS 600 - Dynamics
PHYS 650 - Kinetic Theory of Plasmas
PHYS 670 - Intro to Solid State Physics
PHYS 756 - Quantum Mechanics III
PHYS 777 - The Solar Atmosphere
PHYS 782 - Selected Topics in Nonlinear Optics
PHYS 845 - Quantum Optics
PHYS 880 - Positron Physics and Chemistry

Summer Quarter:

CHEM 850 - Molecular Orbital Theory
MATL 672 - Optical Properties of Materials
METG 650 - Atmospheric Modeling for Engineers
NENG 620 - Nuclear Reactor Theory and Engineering
NENG 625 - Electromagnetic Pulse Effects
NENG 635 - Residual Effects of Nuclear Weapons
NENG 664 - Radiation Effects on Electronics Laboratory
OENG 616 - Electro-Optical Systems Laboratory
OENG 647 - Hyperspectral Remote Sensing
OENG 651 - Optical Diagnostics Lab
OENG 775 - Introduction to Photonic Devices
PHYS 519 - The Space Environment
PHYS 531 - Electromagnetism
PHYS 556 - Intro to Quantum Physics
PHYS 598 - Engineering Physics Seminar
PHYS 770 - Solid State Physics I
PHYS 777 - The Solar Atmosphere
PHYS 780 - Group Theory and Quantum Mechanics
PHYS 781 - Laser Spectroscopy
PHYS 791 - Operational Assessments in the Space Environment