

Last Revised on 22nd February 2007

Nanotechnology Minor

The Nanotechnology Minor is open to students who have met the following prerequisites.

1. (PHYS130 and PHYS131) or (PHYS170 and PHYS171)
2. CHEM120 and CHEM121
3. PHAP100

Most students currently majoring in Biology, Biology/Chemistry, Chemistry, Cooperative Engineering, Physics and Health Sciences would satisfy this precondition.

In addition to the 6 credits at Lock Haven University, this minor requires a summer to be spent in the Nanofabrication facility at Penn State University, taking 18 credits cross listed with LHUP, learning the techniques and instrumentation in a hands-on industrial/research setting.

Required Courses:

PSU

PHAP201- Materials, Safety and Equipment	
Overview for Nanofabrication	3 sh
PHAP202- Basic Nanofabrication Process	3 sh
PHAP203- Thin Films in Nanofabrication	3 sh
PHAP204- Advanced Lithography and	
Dielectrics for Nanofabrication	3 sh
PHAP205- Materials Modification in Nanofabrication	3 sh
PHAP206- Characterization,	
Packaging, and Testing of Nanofabricated Structures	3 sh

LHU

PHAP300 Thin Film Science and Technology	4 sh
PHAP431 Advanced Applied Physics Laboratory	<u>2 sh</u>
Total	24 sh