

Minor in Nanoscale Materials

The Minor in Nanoscale Materials (MNM) requires completion of 15 credits with a minimum grade of C-. MSEG 302 is a required course and the remainder may be drawn from a wide variety of courses in Materials Science and Engineering, Electrical Engineering, Biology, etc. Courses from 300 level and up to the 600 level qualify. Courses used to fulfill the requirement for minor in Nanoscale Materials can not simultaneously be used to fulfill the requirement for minor in Materials Science. Commonly offered courses that are acceptable for the Minor in Nanomaterials Science and Engineering are listed below. This is not an exhaustive list and other courses may be approved as appropriate after discussion. A maximum of 3 credits of undergraduate research or independent study may be counted.

For further information contact:

Prof. Ismat Shah at 302-831-1618 Ismat@udel.edu

MSEG 366/466 Independent Study: Approval by the MNM coordinator required.

MSEG 446 Senior Research: Approval by the MNM coordinator required.

MSEG 603 Analytical Techniques in Materials Science

MSEG/PHYS 667 Thin Film and Nanomaterials Processes

MSEG 667/ELEG 421/621 Solid State Nanotechnology

CHEG/MSEG 616 Physics and Chemistry of Surfaces and Interfaces

CHEG 608 Particle Design and Processing

CHEG 617 Colloid Science and Engineering

CHEG 366 Independent Study. Approval by the MNM coordinator required.

ELEG 467/667 Biomedical Nanotechnology

ELEG 422/622 Electronic Materials Processing

ELEG 446/646 Nanoelectronic Device Principles

ELEG 449/649 Nanotechnology & Applications

PHYS 610 Quantum Physics

PHYS: 467/667 Nanomagnetism

CHEM 671 Atomistic Simulations

BISC 466 Independent Study. Approval by the MNM coordinator required.

MEEG 466 Independent Study. Approval by the MNM coordinator required.

Additional appropriate courses will be approved by the faculty