

Nanoengineering, M.S.

Joint School of Nanoscience and Nanoengineering

Graduate Coordinator: Lifeng Zhang

Email: lzhang@ncat.edu

Phone: 336-285-2875

Department Chair: Ajit Kelkar

Email: kelkar@ncat.edu

Phone: 336-285-2864

The Master of Science in Nanoengineering degree program is a research master's degree, featuring coursework involving engineering at the nanoscale. It is designed for students with a strong background in engineering or applied science who seek additional, specialized training for industrial or government positions in fields that utilize nanotechnology. Students will have opportunities to work in one or more of the following research areas: nanobiology, nanomaterials, nanometrology, nanobioelectronics, nanoenergy, nanoenvironment, and computational nanotechnology.

Admission Requirements

- Bachelor's degree in engineering or a closely related field
- Three professional recommendation letters with at least one from former university/institution
- Current curriculum vitae

Degree Requirements

Total credit hours: 30

- Core courses (15 credits): NANO 701, 702, 703, 704, 705

Thesis option:

- Select 9 credit hours from NANO 711, 721, 731, 741, 761, 790 or other graduate level courses with approval from the advisor and graduate coordinator/department chair
- Thesis (NANO 797: 6 credits)
- Participate in all required JSNN meetings/seminars
- Pass thesis defense

Project Option:

- Select 12 credit hours from NANO 711, 721, 731, 741, 761, 790 or other graduate level courses with approval from the advisor and graduate coordinator/department chair
- Project (NANO 796: 3 credits) and submit a project report
- Participate in all required JSNN meetings/seminars