

# Nanoengineering (MR)

---

## Degree Requirements

Code	Title	Hours	Counts towards
<b>Core Courses</b>		<b>12</b>	
Select four of the following courses:			
MSE 500	Modern Concepts in Materials Science		
MSE 565	Introduction to Nanomaterials		
MSE 791	Nonferrous Alloys		
ECE/CHE 568	Conventional and Emerging Nanomanufacturing Techniques and Their Applications in Nanosystems		
ISE 718	Micro/Nano-Scale Fabrication and Manufacturing		
MAE 536	Micro/Nano Electromechanical Systems		

Code	Title	Hours	Counts towards
<b>Technical Electives</b>		<b>18</b>	
"Technical Electives" are approved in conjunction with the academic committee *			
<b>Total Hours</b>		<b>30</b>	

\* "Technical Electives" may be ones in the MNAE program not used to satisfy other degree requirements or other technical courses approved by the Director of Graduate Program, Nanoengineering.

## Full Professors

Charles M. Balik

Albena Ivanisevic

Thomas H. LaBean

Jagdish Narayan

Joseph B. Tracy

Daryoosh Vashaei

Yaroslava G. Yingling

Yong Zhu

## Associate Professors

Rajeev Kumar Gupta

## Assistant Professors

Kaveh Ahadi

Wenpei Gao

Srikanth Patala

## Practice/Research/Teaching Professors

Claude Lewis Reynolds Jr.

## Emeritus Faculty

Elizabeth Carol Dickey

## Career Opportunities

Nanotechnological advancements have impacted every technological sector and ultimately may change aspects of our daily lives. The development of these new technologies requires innovative nanoengineers who are invested in the fields of electronics, materials, chemical technology, biotechnology and biomedical engineering. Graduates of the Master of Nanoengineering program are equipped with a solid foundation in nanoscience and nanotechnology necessary for the development of new products and procedures.

Potential careers associated with nanoengineering are as follows.

- Research and development engineer/scientist
- Biomedical engineer
- Materials engineer/scientist
- Bioinformatics
- Chemist
- Process engineer
- Materials analyst
- Professor
- Medical doctor
- PhD student