# Nanotechnology Minor

(18 credits)

Requires approval by Nanotechnology minor coordinator and academic advisor in student’s major.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NANO 488</td>
<td>Intro to Nanotechnology</td>
<td>3</td>
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Select five of the following (choose up to one Independent Research course): \(^1\)  

- **BME 420** Advanced Materials Science  
- **BME 430** Fundamentals of Tissue Engineering  
- **BME 479** BioMicroElectroMechanical Systems  
- **BME 491** Research and Independent Study I  
- **BME 492** Research and Independent Study II  
- **CHE 375** Structure, Properties and Processing of Materials  
- **CHE 380** Introduction to Biotechnology  
- **CHE 491** Research and Independent Study I  
- **CHE 492** Research and Independent Study II  
- **CHE 619** Nano-scale Characterization of Materials  
- **CHEM 340** Chemistry and Engineering of Materials  
- **CHEM 437** Applications of Computational Chemistry and Molecular Modeling  
- **CHEM 473** Biochemistry  
- **CHEM 491** Research and Independent Study I  
- **CHEM 492** Research and Independent Study II  
- **ECE 374** Electronic Device I  
- **ECE 659** Fabrication Principles of Electronic and Optoelectronic Devices  
- **ECE 463** Optoelectronics  
- **EVSC 335** Environmental Law  
- **EVSC 416** Environmental Toxicology  
- **EVSC 391** Research and Independent Study  
- **MATH 448** Stochastic Simulation  
- **MATH 491** Independent Study in Mathematics  
- **ME 438** Introduction to Physical Metallurgy  
- **MTSE 301** Principles of Material Science and Engineering  
- **OPSE 301** Introduction to Optical Science and Engineering  
- **OPSE 402** High Power Laser and Photonics Applications  
- **OPSE 410** Biophotonics  
- **PHEN 501** Pharmaceutical Engineering Fundamentals II  
- **PHEN 502** Pharmaceutical Engineering Fundamentals III  
- **PHYS 350** Biophysics I  
- **PHYS 418** Fundamentals of Optical Imaging  
- **PHYS 490** Independent Study

**Total Credits**  
18

\(^1\) Research topic must be nanotechnology related.