

# ENGINEERING AT THE NANO-SCALE

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## Learning Outcomes

1. **KNOW:** Demonstrate a mastery of core principles of nanoscience and nanotechnology.
2. **APPLY/CREATE:** Apply methods of fabrication and characterization of nanomaterials and nanodevices.
3. **COMMUNICATE:** Effectively communicate technical knowledge and laboratory practices including: ideas, designs, data analysis, findings, or decision justification in written, graphical and oral presentation formats.
4. **THINK:** Critically and creatively conceptualize and evaluate engineering problem formulations, analyses, and solutions.
5. **TEAMWORK:** Collaborate in a collegial and ethical manner with other professionals within their field and with diverse, cultural, scientific, and technical backgrounds.
6. **PROFESSIONAL PRACTICE:** Demonstrate a knowledge and the ability to practice the professional standards of safety and professional behavior.