

2019 NSE Grantees Conference

Digital Curricula and Textbook for Online and Hybrid Nanotechnology Courses

Marco Curreli

Founder and Executive Director of [Omni Nano](#)



Abstract: Omni Nano has created the first digital curricula for online/hybrid nanotechnology courses at the high school and undergraduate levels, aligned with both NGSS and ASTM standards for nanotechnology workforce education. Because our resources are entirely digital, they are easy to distribute as well as easy to translate. Our flexibly modular, student-centered materials include everything required to teach nanotechnology, whether as a stand-alone class or integrated into another science class. Our fully digital package browses well across desktop and mobile applications; compatibility with popular learning management systems like Canvas and Schoology make its adoption and use both simple and straightforward.

We have demonstrated a positive effect on students' educational and professional interests, inspiring thousands of students to pursue a wide variety of STEM fields.

Bio: Dr. Marco Curreli is a STEM educator, nanotechnology researcher, and speaker. He is the Founder and Executive Director of [Omni Nano](#), a nonprofit organization that teaches students the STEM skills they need for the “careers of the future.” Omni Nano’s first-of-its-kind nanotechnology curriculum has been adopted by dozens of institutions in the US and around the world. Dr. Curreli also teaches at West LA College and UCLA Extension, where he is spearheading efforts to develop nanotechnology certificate programs. He holds a BS in Chemistry from Cal State LA and a PhD in Chemistry from USC. LinkedIn: <https://www.linkedin.com/in/marco-curreli/>.