

Good morning,  
You are invited to attend our weekly ECE Graduate Seminar.

**Old Dominion University**  
**College of Engineering and Technology**  
**Department of Electrical and Computer Engineering**

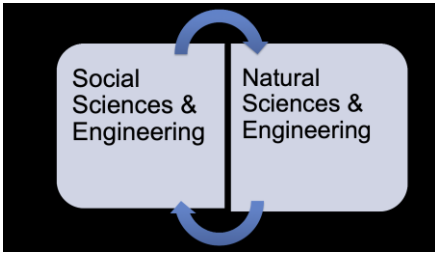
All lectures to be held at 3:00pm on Fridays online at  
[https://vs.prod.odu.edu/kvs/interface\\_webex/?cid=202020\\_ECE731ECE831VS\\_94044](https://vs.prod.odu.edu/kvs/interface_webex/?cid=202020_ECE731ECE831VS_94044)  
For more information, contact Dr. Chung Hao Chen at (757) 683-3475 or email [cxchen@odu.edu](mailto:cxchen@odu.edu).

**Friday, April 2, 2021 Seminar Topic:**

**INTEGRATE SCIENCE AND ENGINEERING INFRASTRUCTURES** by Dr. Samar K. Guharay, PH.D.,  
Affiliate with The MITRE Corporation

**Abstract:**

This seminar sets a stage for discussions on a new course, “Integrate Science and Engineering Infrastructures”, planned for this fall. Trends in innovations in natural sciences and engineering (S&E) and inclusiveness/connectivity fostering societal growths form some of the basic kernels of discussions. If systematically and sufficiently drilled, scholarly questions on ecosystems, causalities and underlying linkages can be asked. Energy, communications, agile manufacturing, crowd synchrony, economic stability, and circular economy are some example academic topics, with crosscutting threads. Talking through the problem of interconnectedness in a couple of example topics can stimulate discussions. This seminar highlights an academic plan in a bottom-up manner, and it steps towards building a common taxonomy across heterogeneous disciplines in science and engineering. Students from all colleges, especially advanced undergraduate and graduate students, are encouraged to attend.



**Bio:**

With affiliation with The MITRE Corporation\* since 2005, Samar K. Guharay, Ph.D. Physics, 1980, has been engaged in basic and applied physics research in academe and research organizations over the past four decades. His current academic interest is integrated education bridging between natural and social sciences and engineering. Over many years now, he has been associated with the Electrical and Computer Engineering Department, Old Dominion University as a member of the Industrial Advisory Board.

\*The affiliation is provided for speaker's identification only and is not intended to convey or imply the organization's concurrence with, or support for, the positions, opinions or viewpoints expressed by the speaker.