

**THE CITY COLLEGE AND TU-
GRAZ/UNIVERSITY OF GRAZ
TWO-WEEK SEMINAR COURSE-
SUMMER 2017**

JULY 17-JULY 28, 2017

@ THE CITY COLLEGE OF NEW YORK



**SCIENCE AND
SOCIETY- IN THE
FUTURE**

Course participants will explore the challenges faced by Science, Technology and Engineering in the Future through a series of lectures and discussions. Students

can explore areas of 1) Biomedical Science and Engineering, 2) Structural Biology, New Materials and Nanotechnology, 3) Energy, Sustainability, Ecology and Environmental Issues, 4) Engineering in an Urban Environment, and 5) Entrepreneurship and Innovation. The interdisciplinary nature of the sciences and engineering will be emphasized, and the course will utilize the expertise of the Centers, Institutes and Programs within the University for invited lectures by CUNY Faculty. **Week 1** will be structured to include workshop style lectures, research presentations (faculty and workshop participants) and laboratory tours. In **week 2**, students will be matched with one (or more) faculty in a Center/Institute setting, allowing them to explore their research area/challenge.



SEMINAR PROGRAM DESCRIPTION



Eight students from the Uni Graz/TU-Graz, students from the City University of New York, the University of Cartagena and the State University of Feira de Santana will participate in the program. Participants will share a common living arrangement in New York City. Students will be exposed to five main Challenges in Science and Technology (as per

the course description) and will develop a final **presentation** and **research paper** focused on the direction they predict ONE of the selected Science, Engineering, or Technology area they chose, will trend in the upcoming twenty-five years.

GRADE ASSIGNMENT

Research Challenge Paper 50%
Students develop a RESEARCH CHALLENGE PAPER on one specific technology from the four main areas. Possible technologies under consideration by students are discussed and a two-page summary of the chosen topic/technology is submitted at the end of the two-week seminar. The full research paper is submitted at the end of August.

Group Presentation/Challenge 30%
Students will be paired and assigned to one of the four main Science and Technology areas of the seminars. Each group will be responsible for reporting to the entire group on the assigned area. Each pair will produce a POSTER/PPT on the area.

Individual Oral Presentation 20%
Each participant presents a 10 minute PRESENTATION on their selected Challenge.

GENERAL CHALLENGE STRUCTURE

- In The Future-Exploration of the Science Technology and Engineering Concepts
- Human Impact- Local and Global
- Predicting and Forecasting

PROGRAM INCLUDES

- Visit to Brookhaven National Laboratories- Center for Functional Nanoscience
- Visit/Residence at CUNY Entrepreneurship Centers @ Baruch College and the Zahn Center for Innovation at CCNY
- Visits/Tours of CCNY/CUNY Centers and Institutes.
- Residence and Discussions with CUNY/CCNY Faculty
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