Technology Engineering and Design Education

Grade: Grade 9 - 12
Course: Scientific and Technical Visualization II

NCCTE.TS22 - Scientific and Technical Visualization II

NCCTE.TS22.01.00 - Explain oral communication and job seeking skills.
   NCCTE.TS22.01.01 - Describe how to deliver an extemporaneous technical presentation.
   NCCTE.TS22.01.02 - Prepare an extemporaneous technical presentation.
   NCCTE.TS22.01.03 - Specify how to complete a letter of application, a job application, and a job interview.

NCCTE.TS22.02.00 - Apply advanced tools of visualization.
   NCCTE.TS22.02.01 - Describe how computers store information.
   NCCTE.TS22.02.02 - Define how to apply pixel values to digital images.
   NCCTE.TS22.02.03 - Apply pixel values to digital images.
   NCCTE.TS22.02.04 - Identify trends in scientific & technical visualization tools.

NCCTE.TS22.03.00 - Demonstrate advanced principles of visualization.
   NCCTE.TS22.03.01 - Recognize advanced 2D design concepts.
   NCCTE.TS22.03.02 - Describe advanced imaging techniques.
   NCCTE.TS22.03.03 - Identify advanced presentation techniques.
   NCCTE.TS22.03.04 - Demonstrate advanced presentation techniques.
   NCCTE.TS22.03.05 - Identify basic web page design.
   NCCTE.TS22.03.06 - Demonstrate basic web page design.

NCCTE.TS22.04.00 - Demonstrate advanced visualization processes.
   NCCTE.TS22.04.01 - Summarize advanced 3D modeling.
   NCCTE.TS22.04.02 - Interpret advanced animation techniques.
   NCCTE.TS22.04.03 - Describe video-editing techniques.
   NCCTE.TS22.04.04 - Demonstrate video-editing techniques.

NCCTE.TS22.05.00 - Demonstrate advanced scientific visualization.
   NCCTE.TS22.05.01 - Recognize cells and their parts.
   NCCTE.TS22.05.02 - Create a visualization of the cell and its parts.
   NCCTE.TS22.05.03 - Recognize plate tectonics.
   NCCTE.TS22.05.04 - Create a visualization of plate tectonics.
   NCCTE.TS22.05.05 - Describe DNA and gel electrophoresis.
   NCCTE.TS22.05.06 - Create a visualization of DNA and gel electrophoresis.
   NCCTE.TS22.05.07 - Explain different simple machines.
   NCCTE.TS22.05.08 - Create a visualization of simple machines.
   NCCTE.TS22.05.09 - Create an advanced visualization.

NCCTE.TS22.06.00 - Demonstrate preparedness for the future.
   NCCTE.TS22.06.01 - Summarize different types of portfolios.
   NCCTE.TS22.06.02 - Synthesize an electronic portfolio.