Course: NUR 1002L (Transition to Professional Nursing Clinical Laboratory)

Course Description: This course provides students with opportunities to apply fundamental nursing concepts and beginning to intermediate medical-surgical clinical experiences. The student will address the holistic needs of the client, family and community. Students will be encouraged to seek out opportunities to assist clients in preventive care and maintenance of health.

Learning Outcomes addressed by this course:
#3. Solve problems using critical and creative thinking and scientific reasoning.
#4. Formulate strategies to locate, evaluate, and apply information.

Additional Learning Outcomes addressed by this Lesson Plan:
# 6. Create strategies that can be used to fulfill personal, civic, and social responsibilities.
# 10. Describe how natural systems function and recognize the impact of humans on the environment.

Instructional objectives: Student will be able to
- list a few invasive species (two types of plants and two types of animals) in south Florida
- describe health issues that can result from invasive species.
- develop two to four strategies to overcome the identified problems for Virginia Key Beach Park to fulfill civic responsibilities.

Lesson Plan:

- Introduction of topic to students

What are invasive species? Invasive species can be any kinds of living organism include plants, insects, fish, fungus, bacteria, seeds, eggs, and others. They do not belong to the ecosystem and can harm the environment, economy, and human health. It is estimated that 5% of global economy or more than $1.4 trillion are affected by invasive species that damage the land, water, native plants and animals (Natural Wild Life Federation & The Nature Conservancy).

- Assigning a student group work
Students will utilize smart phones to research the following information: invasive species in South Florida, invasive species and human health, and strategies to overcome the identified problems.

- Introducing the history of Virginia Key Beach (Virginia Key Beach Park)

- Assigning another student group work to search for the Virginia Beach Restoration Program, and how volunteers can help in removing invasive plants, seeds, and trees from the beach (Citizens for a Better South Florida)

- Summary and motivate students to take action.

References:

Citizens for a Better South Florida (Affiliations of Miami Dade and multiple organizations in the community)
http://www.abettersouthflorida.org/volunteer.html
Wright, S. J., *Virtual Herbarium, Fairchild Tropical Botanic Garden* (Endangered plant species on Virginia Beach) [http://www.virtualherbarium.org/gardenviews/VirginiaKey.html](http://www.virtualherbarium.org/gardenviews/VirginiaKey.html)

*The Nature Conservancy*
(How people can take part in controlling invasive species and the role of Nature Conservancy)
[http://www.nature.org/ourinitiatives/habitats/forests/howwework/protecting-native-plants-and-animals-taking-on-the-invaders.xml?matchtype=p&creative=39155617430&device=c&network=g&src=sea.AWG.PR0.CP142.AD1382.KW10201.MT2.BU376&gclid=CP_rvtGZ7sECFU40aQodZhEA6A](http://www.nature.org/ourinitiatives/habitats/forests/howwework/protecting-native-plants-and-animals-taking-on-the-invaders.xml?matchtype=p&creative=39155617430&device=c&network=g&src=sea.AWG.PR0.CP142.AD1382.KW10201.MT2.BU376&gclid=CP_rvtGZ7sECFU40aQodZhEA6A)

*The National Park Service and the Florida Fish and Wild Life Conservation Commission* (List of animal invaders in Florida includes descriptions and pictures)


*Virginia Key Beach Park* (History and map)
[http://www.virginiakeybeachpark.net/default.asp](http://www.virginiakeybeachpark.net/default.asp)