

## 《Science and Society》 Syllabus

**Course Number:** NANA1067

**Course Name:** Science and Society

**Course Category:** Compulsory Course

**Credits/Contact Hours:** 2 Credits: 36 hours

**Evaluation Method:** Short Presentation + Formal Presentation + Final Examination

**Semester:** 2nd semester

**Prerequisites:** NANA1046, NANA1048, NANA1054

**Follow-Up:** NANA2085

**Lecturer:** Burt Bedo, Sarah Dorsey

**Syllabus Author:** Burt Bedo

**Syllabus Reviewer:** Alexander Brandt

**Text Book:** None

### (1) Specific Goals for the Course

This course will focus on development of students' English speaking and listening skills for scientific purposes with the aim of achieving smooth, logically organized speech and quick, accurate listening comprehension. Tasks will include creating and delivering presentations with an academic style using classroom technology, describing and explaining trends in graphs and charts, and discussing the process of approaching and responding to complicated research questions. Major themes will include the impact of technology on the earth and on human society, the social roles and responsibilities of scientists and researchers, and communication of scientific ideas to non-scientific audiences.

- (i) Work in groups to organize and present scientific information orally to an audience. (Support Graduation Requirements Indicator 9-2).
- (ii) Use appropriate English vocabulary and grammar in discussing and presenting scientific ideas and their global impact. (Support Graduation Requirements Indicator 10-3)

### (2) Topics for the Course

At the end of this course students will be able to:

- Engage with variety of scientific topics with appropriate academic language, fluency, and confidence.
- Illustrate the concepts presented in authentic audio and video with clear notes.
- Plan, organize, and deliver an academic presentation with effectively designed visual aids.
- Analyze new problems logically and work out a series of steps toward a solution.
- Debate and discuss in a group with proper academic etiquette.

### (3) Assessments for the Course

- **Course Score = Short Presentation (SP, 20%) + Formal Presentation (FP, 40%) + Final Examination (FE, 40%)**
- **Achievement of Course Goal = (SP Mean Score\*SP Weight\*0.2 + FP Mean Score\*FP Weight\*0.4 + FE Mean Score\*FE Weight\*0.4) / (100\*SP Weight\*0.2 + 100\*FP Weight\*0.4 + 100\*FE Weight\*0.4)**

Course Goal	SP Weight	FP Weight	FE Weight
(i) Work in groups to organize and present scientific information orally to an audience. (Support Graduation Requirements Indicator 9-2).	0.3	0.7	0
(ii) Use appropriate English vocabulary and grammar in discussing and presenting scientific ideas and their global impact. (Support Graduation Requirements Indicator 10-3)	0.7	0.3	1

### Rubrics for the Course:

Course Goal	90-100 (Excellent)	75-89 (Good)	60-74 (Pass)	0-59 (Fail)
(i) Work in groups to organize and present scientific information orally to an audience. (Support Graduation Requirements Indicator 9-2).	Values, encourages, and acknowledges the work of other group members.	Respects differing points of view. Agree on group priorities, goals, and procedures.	Listens attentively to members of the group. Contributes some to end product of the group.	Acknowledges members of the group. Cooperates reluctantly or obstructs progress.
(ii) Use appropriate English vocabulary and grammar in discussing and presenting scientific ideas and their global impact. (Support Graduation Requirements Indicator 10-3)	Demonstrates excellent understanding of vocabulary definitions and spelling, while managing to produce sound sentences. Shows excellent understanding and	Demonstrates great understanding of the vocabulary definitions and spelling, but are somewhat misplaced and not consistently structured in sound sentences.	Demonstrates basic understanding of vocabulary definitions, but fails to correctly link and/or spell them within sound sentences. Shows basic understanding of	Demonstrates insufficient understanding of the vocabulary definitions and sound application in sentences. Shows insufficient understanding of

	application of grammar concepts.	Shows great understanding of grammar concepts, but sentences lack full clarity and mastery of tenses.	grammar concepts, but fail to recognize and use proper tenses to form sound sentences.	past, present, and future tenses that conflict with unit goal expectations.
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