

## Cell-to-Cell Syllabus

**Summary:** Cells are the basic structural and functional units of life. Explore the vast array and function of cells in living organisms, investigate how different types of cells interact, study current research and address ethical concerns in the field of cell biology.

### Tasks to be completed:

- ❑ 1. With your group, answer three Introduction Questions, and report your findings in an essay or a visual presentation
- ❑ 2. After a teacher presentation and discussion, write a two-minute speech summarizing distinctions between cell types
- ❑ 3. Produce and deliver a team multimedia presentation and model or diagram of an assigned cell part (see cell checksheet)
- ❑ 4. Complete a Cell Structure and Function Chart as you listen to presentations
- ❑ 5. Complete team research of a medical condition (see cell checksheet), resulting in an oral presentation for a class symposium and a newsletter that includes:
  - A disease process diagram
  - Articles on current research
  - *Individual* essays addressing ethical concerns of cell biology research, stating your point of view with supported argument
  - Participation presenting current research in cell biology

### Other requirements:

- ❑ Participation in class discussions and debates
- ❑ Completion of peer and self assessments

### Optional projects:

- ❑ Interview an expert in cell biology (ex: medical researcher) online or in person
- ❑ Keep a log of daily science news articles ([New York Times](#) online), read them and prepare an abstract of articles, with reflection on course-related topics
- ❑ Research and report on high-tech devices that are revolutionizing the study of life science and medicine