MINUTES
LIBERAL STUDIES COMMITTEE
October 15th 2020

https://iupvideo.zoom.us/j/99054351198

In attendance: Asamoah, Hromadik, Knoch, Massey, Ortiz, Reilly, Siegel-Finer, Slack.

Curriculum

- PHYS 111 Physics 1 Lecture, Liberal Studies (natural science), mapping SLOs to EUSLOs and including an assessment tool
    - course outline needs to be included
    - Reword the answer given on contribution and perspectives of women on racial minorities. Remove the phrase "While minorities and women are not an emphasis…" As an assignment students should be given an opportunity to research female/minority physicists and be informed about the role women and minorities have played.
    - Check out "Atoms in the Family" by Laura Fermi. Include as a possible reading.
    - Change the wording in the last question on non-textbook readings to "students will be required to read from a selection of research articles, magazine articles, websites…" Better worded in the labs.

  Motion to recommend Provisionally Approval PHYS 111. Motion carried.

- PHYS 112 Physics II Lecture, Liberal Studies (natural science), mapping SLOs to EUSLOs and including an assessment tool
    - Check the spelling of the word "When **appropriate**….in the second sentence in the section on the contributions of women and racial minorities.
    - Check the use of capitalization of in the last sentence of the same section. The American Institute of **P**hysics has an **i**nternet source….
    - Change the wording in the last question on non-textbook readings to "students will be required to read from a selection of research articles, magazine articles, websites …" Better worded in the labs.

  Motion to Provisionally Approve PHYS 112. Motion carried.

- PHYS 121 Physics I Laboratory, Liberal Studies (natural science laboratory), mapping SLOs to EUSLOs and including an assessment tool

  Motion to Approve PHYS 121. Motion carried.

- PHYS 122 Physics II Laboratory, Liberal Studies (natural science laboratory), mapping SLOs to EUSLOs and including an assessment tool

  Motion to Approve PHYS 121. Motion carried.

- PHYS 151 Medical Physics Lecture, Liberal Studies (natural science laboratory) mapping SLOs to EUSLOs and including an assessment tool
    - Check the use of capitalization in the last sentence in the section on the contributions of women and racial minorities.. The American Institute of **P**hysics has an **i**nternet source….
    - Change the wording in the last question on non-textbook readings to "students will be required to read **from a selection of research** articles, magazine articles, websites …" Better worded in the labs.

  Motion to Provisionally Approve PHYS 151. Motion carried.

- PHYS 161 Medical Physics Lab, Liberal Studies (natural science laboratory) Mapping SLOs to EUSLOs and including an assessment tool
    - Incorrect course number given inside parenthesis in the first sentence in the section on the contributions of women and racial minorities. Should be (PHYS **151**).

  Motion to Provisionally Approve PHYS 161. Motion carried.

- PHYS 101 Energy and Our Environment, Liberal Studies (natural science non-laboratory), mapping SLOs to EUSLOs and including an assessment tool

  Motion to Approve PHYS 101. Motion carried.

- PHYS 105 The Physics of Light and Sound, Liberal Studies (natural science non-laboratory), mapping SLOs to EUSLOs and including an assessment tool
    - Fix the spelling of the word **appropriate** in the very last section on the non-textbook readings.

  Motion to Approve PHYS 105. Motion carried.

- SCI 105 Physical Science, Liberal Studies (natural science laboratory), mapping SLOs to EUSLOs and including an assessment tool
    - Since this is a course for future teachers, would like to see more emphasis on activities that would be used that these teachers than then use in their classrooms to encourage females and minorities into the discipline of physics. One such activity is using the following website: https://en.wikipedia.org/wiki/List_of_female_Nobel_laureates and ask them to research a female scientist and discuss her career path. This could be done in place of copying and pasting from previous courses.

  Motion to Provisionally Approve SCI 105. Motion carried.

- ENGL 225 Introduction to Literature by Women Liberal Studies (Humanities: Literature)

  Motion to Approve ENGL 225. Motion carried.

- FSMR 215 Textiles Liberal Studies Knowledge Area Natural Science Laboratory

Courses designed to meet the Liberal Studies Natural Science lab-science requirement must include content and instruction that provides opportunities for students to:

- examine a body of knowledge of natural science that will contribute to an understanding of the natural world and an appreciation of the impacts that natural sciences have on the lives of individuals and the world in which they live.
    - Do these students understand the natural world (chemistry concepts such as atomic structure, molecular behavior and chemical reactions) that this more applied course is based from? This course, as it is designed, does not seem to address the basic principles taught in general chemistry.
- understand the difference between science as a knowledge base and science as a process that generates knowledge.
    - It is not clear how this course address the physical properties of natural science. Emphasis seems to be more on observations and focuses on man-made fibers.
    - Emphasis more on applied science rather than the natural science focus needed for Natural Science requirements.
- develop an inquiring attitude consistent with the tenets of natural science.
- understand the empirical nature of science.
    - While there are applied chemistry concepts involved in this course, it does not seem to address the empirical nature of science. In other words, are students generating hypotheses, are they performing a variety of scientific tests and analyzing data that will support or refute their hypotheses, will they revise their hypotheses based on their empirical data?
- understand the concept of bias and the efforts to which scientists go to avoid it.
    - In this course, how does bias impact their field and what do they do to address it?
- to learn the proper application of scientific methodology in an appropriate context.
    - Recognize that this is a good course, but it does not provide the broad base foundation required to understand the chemical properties taking place.

Motion to Deny FSMR 215 as a Liberal Studies Knowledge Area Natural Science Laboratory

Meeting adjourned at 5:15 PM.
Respectfully submitted
Edel Reilly