ENGL 334   Scientific and Technical Writing

Credit Hours: 3
Scheduled hours per week
      Lecture: 3
      Lab: 0
      Other: n/a

Catalog Course Description: Upper-level course requiring the study of readings, practices, technical/scientific writing conventions: uses of graphics, professional vocabulary, audience analysis, research techniques, parameters and professional requirements for scientific or technical content and secondary research writing.

Pre-requisites: Grades of C or better in ENGL 101 or ENGL 107
Co-requisites: n/a

Course Learning Outcomes:
At the end of ENGL 334, students should be able to do the following:

1. **Select appropriate topic and language for a specific writing assignment and/or audience.**
   - identification and selection of scientific or technical research topics
   - analysis of scientific and technical audience levels, the student's current position as a member of a particular technical or scientific audience, the student's potential future audience levels, and concerns for writing for each level
   - instruction in document design appropriate to various audience levels of professional or scientific writing

2. **Develop a strong thesis within the guidelines of an assignment.**

3. **Provide adequate support for thesis and assertions.**

4. **Write with unity and coherence.**

5. **Use correct grammar, punctuation, spelling, diction, and syntax.**

6. **Choose appropriate writing patterns.**
   - identification and use of conventions such as graphics, headings, professional vocabulary, particular to technical and scientific writing

7. **Evaluate own and others' writing.**
   - instruction in writing, proofreading, editing, and revising the student's research essay according to the conventions of professional and scientific writing identified in this list

8. **Practice writing as a process that involves topic selection, brainstorming, prewriting, outlining, drafting, revising, working with multiple drafts, and editing.**
   - to empower students to write competently by teaching them grammar, mechanics, and the various dimensions and stages of the writing process

9. **Employ various techniques and forms of formatting, research, and documentation**
   - research concerning the identification, location, and perusal of professional level technical or scientific material
   - familiarization with and use of the conventions and formats of source documentation in secondary technical and scientific research

CLO Assessment Methods: Instructors will choose from assignments that will include a combination of writing, tests, presentations, and class participation.

Topics to be studied:
- Students will produce research papers combining the techniques introduced in this course and material that they will research concerning issues chosen by the students which, for those students enrolled in the MDS Degree Program, will integrate the students' minors.
- Students not in the MDS program should choose a focus that fits their career interests.
- At the beginning of the course, the instructor will establish formal criteria, as well as the formats and parameters for writing assignments throughout the term.

Relationship of Course to Program Learning Outcomes (PLO) or Institutional Learning Outcomes:
- This course is neither a Foundational Course nor a Program course though may be required by some WVUP academic programs.

Special requirements of the course:
- This course will require secondary research concerning scientific and technical topics. Students will produce formal research papers with documentation based on the conventions of scientific and technical writing will be produced.
- Will meet the requirements of the Advanced Skill Set Certificate in Writing, the MDS writing minor, and the RBA future writing AOE.
- **(**indicate specific policies you have initiated for your class. (i.e. no cell phones, tardiness affecting grade, participation, etc.)

Additional information:
(Anything else that may be useful.)

Prepared by: The English Faculty

Date: January 7, 2022