

Course Title: BME 300 Writing in Biomedical Engineering

Course Description: All degree candidates must demonstrate skill in written English at a level acceptable for engineering majors. All Biomedical Engineering students must complete the writing course BME 300 concurrently with a selected BME 300-level course. The quality of writing in technical reports submitted for the course is evaluated, and students whose writing does not meet the required standard are referred for remedial help. Satisfactory writing warrants an S grade for BME 300, thereby satisfying the requirement.

Prerequisites: WRT 102; U2, U3 or U4 standing; BME major

Corequisites: Any 300- or 400-level BME course, or permission of the Undergraduate Program Director.

S/U grading.

Specific Information:

ABET (BME) Program Outcomes

(f) an understanding of professional and ethical responsibility

(g) an ability to communicate effectively

(i) a recognition of the need for, and an ability to engage in life-long learning

(j) a knowledge of contemporary issues

Outcome Measures: The Report

This report will be at least 10 pages in length, double spaced, with references on a topic agreed upon by the instructor and student. Two forms of this report are acceptable: Critical Analysis of one study; Synopsis of at least 3 articles to describe a key aspect of the field. A draft of the report is due at mid-semester. The final report will be due by the last day of regular classes. A copy of the report will be sent to the undergraduate program director. The grammar and writing skill will address (g), the report content will address (j), the student's demonstrated depth of exploring other literature will address (i), and through both the review of literature and process of referencing the literature, (f) will be addressed.

Critical Analysis. This will include background pertinent to the study, methodology or approach taken, will identify key data and supportive control data, and will give a summary of the discussion. Finally, the student will provide their analysis of the study's conclusions.

Synopsis. This will provide comparison / contrast of various views within a field. It will include a summary of each view, outline at least 2 points of direct comparison between studies, critical analysis of these points of comparison, and a summary of the student's conclusions regarding these points of view as it pertains to the field as a whole.

The instructor will grade the report based on how well the report meets the Program Outcomes. For each item, the instructor will assign a numerical score of 1 through 5 where 1 is unsatisfactory, 3 is satisfactory and 5 is excellent. A grade of S will be assigned for a total score of 12 or greater and a grade of U will be assigned for total scores of less than 12.