



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Research Communications in Chemical and Biomolecular Engineering

CBE 8781

Credit Hours:

2.00 - 2.00

Course Levels:

Graduate (5000-8000 level)

Course Components:

Lecture

Course Description:

Analysis and critique of chemical and biomolecular engineering research literature. Training and practice in written and oral communication of research ideas.

Prerequisites and Co-requisites:

Prereq: Grad standing.

Course Goals / Objectives:

- Work as a researcher
 - Identify and describe the components of a logical argument
 - Communicate technical subject matter in writing to a variety of audiences
 - Organize, prepare, and deliver an oral presentation to a variety of audiences
 - Critically analyze a journal article, research report, or proposal for strengths and weaknesses of the scientific arguments it contains
-

Course Topics:

- Audience analysis
 - Understanding your readers
 - From topics to questions
 - Defining research problems
 - Delivery (Presentation)
 - Presentation introductions
 - Introducing your (advisor's) research
 - Argument I - Claim
 - Argument II - Warrant
 - Drafting
 - Plagiarism
 - Technical writing - editing sentences, sentence analysis
 - Proposal - Introducing your research (preproposal)
 - Graphics
 - Reviewing/Revising Proposal
 - Interview
-

Designation:

Required