

Rubrics for BCHE4520 Final Presentation/Paper

Student _____

Technical (35%)

- Understands specific rationale for separation/purification methods used for process; Identifies key limiting phenomena or critical components of a process or system (15)
- Recognizes and interprets fundamental scientific concepts; applies appropriate approaches to solve engineering problems and assess the feasibility of the solutions; applies first principles and chooses appropriate assumptions in formulating mathematical description of processes or systems (13)
- Recognizes sources of error and estimates the limits of applying results; assesses (other's) experimental results critically in relation to theory (7)

Professional (20%)

- Recognizes responsibilities of engineers as they affect the public and society, including safety (7)
- Recognizes ethical dilemmas and selects appropriate strategies in making ethical decisions; analyzes tradeoffs and constraints with respect to environmental, social, economic impact of technical solutions (7)
- Identifies contemporary issues that are relevant to engineering; anticipates the consequences of contemporary issues for future engineering solutions; understands implications of current political, social and global forces on practicing engineers; understands roles of communities, private enterprises, governments and global organizations with respect to technical solutions; understands historical context of engineering solutions (6)

Synthesis (15%)

- Expresses and analyzes arguments, and constructs arguments based on evidence (8)
- Recalls, organizes and synthesizes learned information; demonstrates ability to synthesize new information (7)

Quality of communication (30%)

- Spelling, grammar, punctuation, data presentation, and clarity of writing; enunciation, voice projection, clarity and logical order of the presentation and effective use of visual aids.