

Evaluation Rubric for ENGR 3520 Projects
(each as appropriate for a specific assignment)

Technical (30%)

- Recognizes and interprets fundamental scientific concepts
- Recognizes sources of error and estimates the limits of applying results
- Assesses experiment results critically in relation to theory
- Identifies key limiting phenomena or critical components of a process or system
- Applies appropriate approaches to solve engineering problems and assesses the feasibility of the solutions
- Applies first principles and chooses appropriate assumptions in formulating mathematical description of processes or systems

Group Dynamics (10%)

- Listens actively, shares information, and provides feedback
- Completes assigned tasks by negotiated deadlines
- Understands and adapts to different group roles
- Interacts cooperatively with individuals having different backgrounds

Ethical/Professional Responsibility (30%)

- Recognizes responsibilities of engineers as they affect the public and society
- 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
- 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.

Presentation (30%)

- Presents data and draws conclusions accurately in writing
- Expresses and analyzes arguments, and constructs arguments based on evidence
- Recalls, organizes and synthesizes learned information
- Demonstrates ability to synthesize new information