



Strategic Statement

MISSION: Our mission is to prepare students to assume engineering positions in industry with the potential to advance to leadership positions.

It is the mission of the faculty to provide a curriculum which is relevant to current engineering practice and strongly applied in nature. The faculty provides an environment in which the students develop the knowledge and skills necessary to meet the engineering design challenges of the future with flexibility and creativity. Students develop technical competency through classroom/laboratory work and through the supervised on site work experience provided in the student's industry experience.

Our mission is fulfilled by commitment to continual improvement and refinement through critical review. Such review requires both close contact with current engineering practice and a commitment to those elements of a general education program required for a well balanced education. For this reason faculty involvement with the student industry experience and with consulting practice will be strongly encouraged. At the same time close communication with the academic community at large will assure that our technical education is embedded in a strongly supportive general education program.

VALUES: Our values reflect our educational mission. We are an academic community in a nation for which the intrinsic value of each individual is taken as fundamental. Thus we strive to provide an environment in which each member of our academic community -- student, staff member, and faculty -- can reach his or her fullest potential.

Just as we value each individual in our community, we value the environment in which we live. The engineering community strongly influences the environment through the practice of its profession. For that reason we strive to build into our curriculum an awareness of, and sensitivity to, those areas in which engineering practice affects the environment. Such awareness extends beyond technical knowledge to include ethical responsibility in the practice of our profession.

B.S.E. DEGREE GOAL: The goal of the B.S.E. degree program is to prepare students to assume engineering positions in industry with the potential to advance to leadership positions.

B.S.E. DEGREE OBJECTIVES: A student graduating from the B.S.E. program must (1) have the technical knowledge and capabilities expected of a practicing engineer appropriate to the discipline; (2) be able to function effectively in an industrial environment; (3) have the ability to apply engineering knowledge and be able to create physical realizations of his or her theoretical concepts and models; (4) have the ability to engage in engineering design; (5) have an awareness of the need for continued professional growth; and (6) have an awareness of, and sensitivity to, those areas in which engineering practice affects society and the environment. Such awareness, extending beyond technical knowledge to include ethical and social responsibility, must frame the continued professional and scholarly growth of the graduate. The graduate must have the ability to communicate effectively, engage in critical thinking, and have highly developed skills in problem solving in both individual and team situations.



Seymour and Esther Padnos College of Engineering and Computing • School of Engineering

136 John C. Kennedy Hall of Engineering • 301 Fulton Street West • Grand Rapids, MI 49504-6495 • (616) 331-6750 • www.gvsu.edu/engineering