In industrial manufacturing, the practice of joining and severing metals is a science and an art which requires combined knowledge and skills in a variety of industrial/technical fields. The welding faculty offers a selection of technology courses and programs that prepare the individual for entry level in a welding career. The curriculum offers a variety of ways in which students can realize their training and educational goals. Student needs are matched with the instruction within welding centers on the “traditional” welding processes and practices of oxyacetylene welding and cutting, shielded metal arc, (stick), gas tungsten arc (Tig-Heliarc), gas metal arc (MIG), as well as the "non-traditional" processes of plasma arc, resistance welding, fluxed core arc, submerged arc, and electron beam. Participation in, and completion of, the different sequences of instruction within the welding department prepares the individual for a rewarding career in metal fabrication, maintenance, education, supervision, sales and service, as well as many other opportunities associated with welding technology.