Making a better world—one design at a time.

Contact us

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The South Dakota Mines Department of Mechanical Engineering offers a cohesive project-based learning curriculum. But unlike many universities, we have a comprehensive training program that ensures student safety and the opportunity to learn regardless of previous experience. Students will train in traditional “hands on” processes and “hands off” computer-based fabrication.

Students develop their own projects to maximize student interest, ownership and motivation. This includes project-based coursework, extracurricular teams within the Center of Excellence for Advanced Multidisciplinary Projects (CAMP), VEX U Robotics, and Students for the Exploration and Development of Space (SEDS), as well as student-generated non-academic projects. The goal is to help students develop key “concurrent design” skills, including process planning, resource planning, material selection, cost analysis, Computer-Aided Design (CAD), Computer Aided Manufacturing (CAM), Geometric Dimension and Tolerance (GD&T), mechatronics, robotics, coding, rapid prototyping, ideation and project management through student design, fabrication and testing. We maximize student effort by allowing students the freedom to choose their project.