The Herbert Henry Dow Science Building

THE HERBERT HENRY DOW SCIENCE BUILDING, completed in 1996, is a 32,500-squarefoot, state-of-the-art science facility that houses five classrooms, a mathematics computer lab, a file-server room, two seminar rooms, two physics laboratories, five biology laboratories, five chemistry laboratories, 15 faculty offices, a divisional secretary office, an animal suite, walk-in cold and warm rooms, the College herbarium, and the College insect collection. Laboratories are equipped with electronically controlled chemical fume hoods. The building is connected to the campus computer network via fiber-optic cable, with computer connections that provide access to the Internet in every classroom, faculty office, and laboratory. The computer lab contains 21 Dell workstations and several laser printers. LCD computer projection systems are ceiling-mounted in all of the classrooms. The building also contains in-house deionized water, gas, air, and nitrogen. The
animal facility contains six small-animal rooms and two environmental chambers with adjustable light, humidity, and temperature controls. Biology instrumentation includes a scanning electron microscope, refrigerated centrifuges, cell culturing incubators, imaging systems, a virology lab that includes facilities to do cell cultures, and many types of dissecting and compound microscopes. Chemistry/Biochemistry instrumentation includes Fourier-Transform infrared absorption (FTIR), diode-array and scanning ultraviolet and visible (UV-Vis) absorption, thermal analysis, flame atomic absorption (AA), gas-chromatograph mass spectrometers (GC-MS), liquid chromatograph-mass spectrometer (LC-MS), electrochemical analyzer, Raman spectrometer, capillary electrophoresis instrumentation, ion chromatograph, inert atmosphere glove box, and additional high-performance liquid chromatography (HPLC) equipment. Physics instrumentation includes an 8-Tesla superconducting magnet, 3.8K low-temperature cryostat, helium vacuum leak detector, an ultrasensitive microbalance, and a quantum optics lab.