

Instrumentation

Housed within the chemistry building are 15 research labs, seven instructional labs, and one computer lab. When considering the instrumentation available to those enrolled our instructional labs, conducting research experiences, and with active collaborations, there is an abundance of modern instrumentation. The acquisition and maintenance of state-of-the-art equipment is one of our highest priorities. The instrumentation used both in our instructional and research activities include:

NMR Spectrometer

JEOL 500 MHz NMR with multi-nuclear and variable temperature capabilities

Single Crystal X-ray Diffractometer

Oxford Excalibur with EOS Detector

LC-Mass Spectrometer

ThermoFisher LTQ-Velos LCMS

Raman Spectrometer

Spex Model 1403

Microwave Reaction Unit

CEM Microwave (2)

UV-Vis Spectrometers

Shimadzu UV-Vis UV-2501

Shimadzu UV-Vis 1601

Shimadzu UV-Vis UV-2101

Shimadzu UV-Vis MultiSpec 1500

Gas Chromatographs

Agilent 5890

Buck Model 910 (2)

HP-5890

Buck Model 310 GC (2)

Liquid Chromatographs

Perkin-Elmer Model 200 System with TotalChrom CDS (2)

Shimadzu Prominence System, including Fraction Collector and Evaporative Light Scattering Detector and EZStart CDS

Shimadzu Prominence System with LCSolution CDS

IR Spectrometers

JASCO FTIR-4100 (2) with ATR accessory

Mattson FTIR Model 3000

Mattson Research Grade FTIR

Mattson Satellite

Atomic Spectroscopy

Agilent 4100 MP-AES

Perkin Elmer AAnalyst 600 AAS

Thermal Analysis

Seiko Instruments DSC 220U

Electrochemical

Bioanalytical Systems MF-9030 Voltammograph

Fluorescence Spectrometer

Photon Technology International Model QM40 (2)

Circular Dichroism Spectrophotometer/Polarimeter

JASCO Model J-810-150S

JASCO P-1020 Polarimeter

Mercury Analyzer

Teledyne Leeman Labs Hydra-C Mercury Analyzer

GC-Mass Spectrometer

Shimadzu GCMS-QP5000 (2)