

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 YH-300MHz NMR

Single Crystal X-ray Diffractometer

Oxford Excalibur with Eos Detector

Raman Spectrometer

Spex Model 1403

LC-Mass Spectrometer

ThermoFisher LTQ-Velos LCMS

GC-Mass Spectrometer

Shimadzu GCMS-QP5000

Microwave Reaction Unit

CEM Microwave (2)

UV-Vis Spectrometers

Shimadzu UV-Vis UV-2501

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

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)

Mattson FTIR Model 3000

Mattson Research Grade FTIR

Mattson Satellite

Atomic Absorption

Varian AA SpectrAA 220

Perkin Elmer Model 3030

Thermal Analysis

Seiko Instruments DSC 220U

Electrochemical

Bioanalytical Systems MF-9030 Voltammograph

Fluorescence Spectrometer

SLM Aminco Model MC-200

Photon Technology International Model QM40 (2)

Circular Dichroism Spectrophotometer/Polarimeter

JASCO Model J-810-150S

Mercury Analyzer

Teledyne Leeman Labs Hydra-C mercury analyzer