

## **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

### Microwave Reaction Unit

CEM Microwave (2)

### UV-Vis Spectrometers

Shimadzu UV-Vis UV-2501

Shimadzu UV-Vis UV-2101

### 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

Thermo Scientific Nicolet iS50 FTIR with built-in ATR accessory

### Atomic Spectroscopy

Agilent 4100 MP-AES

Perkin Elmer AAnalyst 600 AAS

### 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)