



UNIVERSITY OF SOUTH ALABAMA

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

- Thermo Fisher LTQ-Velos LCMS

Microwave Reaction Unit

- CEM Microwave (2)

UV-Vis Spectrometers

- Shimadzu UV-Vis UV-2501
- Shimadzu UV-Vis UV-1601
- Thermo Evolution 350

Gas Chromatographs

- Buck Model 910 (2)
- Buck Model 310 GC (2)

Liquid Chromatographs

- Perkin-Elmer Model 200 System with TotalChrom CDS (2)
- Shimadzu Prominence System, including Fraction Collector, Evaporative Light Scattering Detector, and EZStart CDS

Liquid Chromatographs-cont.

- 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 GFAAS

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)

Thermal Analysis

- TA Instruments Differential Scanning Calorimeter
- TA Instruments Thermogravimetric Analyzer