

SCIENCE AND MATH COURSES COMPLETED

Rice University

- Transition Metal Chemistry
- Laser Spectroscopy
- Crystallography and Diffraction
- Nanostructure and Nanotechnology
- Special Topics – Inorganic Chemistry
- Supramolecular Chemistry
- Microscopy Methods in Materials Science

University of St. Thomas

- General Chemistry I & II w/labs
- Organic Chemistry I & II w/labs
- Quantitative Analysis w/lab
- Physical Chemistry I w/lab (Quantum based)
- Physical Chemistry II w/lab (Thermodynamics based)
- Biochemistry w/lab
- Inorganic Chemistry w/lab
- Seminar in Chemistry
- Advanced Organic Chemistry w/lab
- Instrumental Methods of Analysis w/lab
- University Physics I & II w/ labs (Calculus-based)
- Mechanics I: Statics
- Thermodynamics
- Electrical Circuits
- Mechanics II: Dynamics
- Calculus I, II, III, & IV
- Linear Algebra
- Differential Equations
- Numerical Analysis
- Real Analysis

INSTRUMENTATION EXPERIENCE

Gas Chromatography
GC/Mass Spectrometry
High-Performance Liquid Chromatography
Nuclear Magnetic Resonance
UV-Visible Spectrophotometry
FT-IR Spectroscopy
ICP-AES
SQUID
High Gradient Magnetic Separation
X-ray photoelectron Spectroscopy
Scanning Electron Microscope
Transmission Electron Microscope
Atomic Force Microscopy

SOFTWARE EXPERIENCE

Agilent ChemStation software
Grams 32 software
ChemOffice applications
BioRad ChemWindow software
Gaussian 03W
Gauss View
Maple
Matlab
And various other Scientific and Mathematical software

WORK EXPERIENCE

1995 - 2005 Mayo Tractor Service Richmond, TX
Laborer

EXTRACURRICULAR ACTIVITIES

2001-2003 Trumpet Player in the UST Jazz Ensemble