

MARY LYON
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College Address

Mount Holyoke College, Box 1997
South Hadley, MA 01075
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EDUCATION:

Mount Holyoke College, South Hadley, MA.

Candidate for Bachelors of Arts, 1998
major: Biology minor: Chemistry
GPA within major : 3.87 Cumulative GPA: 3.88/4.0

Southern Connecticut State University, New Haven, CT.

Cumulative GPA: 3.91 / 4.0
Awards: Dean's List 1994-1995
 Zeta Delta Epsilon Honor Society

RELATED COURSES:

| | | |
|---------------------------|--------------|----------------------------|
| Intro. to Immunology | Zoology | Organic Chem. I & II |
| Comparative Physiology | Botany | Inorganic Chem. I & II |
| Developmental Biology | Genetics | Analytical Chemistry |
| Ecology and Evolution | Cell Biology | Nuclear Magnetic Resonance |
| Data Analysis/Exp. Design | Microbiology | Physics I & II |

LABORATORY SKILLS:

Biology Apparatus: CRU-5000 Centrifuge, Olympus BH-2 Light Microscope, Philips CM-100 Transmission Electron Microscope, Microtome, Beckman Spectrophotometer 2400-Colorimeter, Sephadex G 150 Column

Chemistry Apparatus: Spectronic 21 -Spectrophotometer, Perkin Elmer 2380 Atomic Absorption Spectrophotometer, Perkin Elmer Luminescence Spectrometer LS50B, Bruker 250MHz Nuclear Magnetic Resonance Spectrophotometer, Perkin Elmer FT-IR, Hewlett Packard 5995 Gas Chromatograph/Mass Spectrometer, Thomas Hoover Uni-melt Apparatus

Techniques: dissection, preparation of slides for microscopy, fluorescence microscopy, ELISA assay, electrophoresis (slab gel, immunoelectrophoresis, single radial immunodiffusion, electroimmunodiffusion, Ouchterlony technique), thin layer chromatography, crystallization, organic synthesis, melting points

Independent Research: As part of my Analytical Chemistry class I designed an experiment for a seventh grade class entitled "Evaluation of Poor Water Quality and its Effects on *Raphanus sativa* "

As part of my Ecology and Evolution class I developed and researched an independent project with a team of three students entitled "An Experimental Search for the Correlation Between Acid Rain and its Evolutionary Consequences on *Antirrhinum majus*."

COMPUTER EXPERIENCE:

Science Software: Molecular modeling (MacSpartan & Spartan), NMR simulation program (MacNuts), Systat version 5.0, Chemical Abstracts Service (STN version), Minitab, Cricket graph

Spreadsheet and Word Processing Skills: Microsoft Excel and Microsoft Word

Miscellaneous: Superpaint

WORK EXPERIENCE:

1995-1997 Summer Maintenance Staff, Hop Meadow Country Club Simsbury, CT: day to day maintenance of a private country club for membership play

1997 Volunteered at Veterinary Medical Associates Canton, CT: assisted in routine visits, observed surgery, and aided in care of the hospitalized animals