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|  | Katie Burns Instructor  kburns@astate.edu |  |

### Current Position

Position Title:

Current Academic Rank: Instructor

Rank Since: Summer 2008

### Degrees

**M.S., Chemistry**, 1996, University of Minnesota, Minneapolis, MN

Emphasis: Analytical Chemistry, Bioanalytical Chemistry of Biological Systems, Electrochemistry

Thesis Advisor: Marian Stankovich (deceased)

Thesis: Characterization of the Spectral and Thermodynamic Properties of CDP-6-deoxy-3,4-glucoseen reductase (E3) and CDP-6-deoxy-L-*threo*-D-*glycero*-4-hexulose-3-dehydrase (E1)

**B.A., Physiology**, 1990, University of Minnesota, Minneapolis, MN

**Scholarly Contributions and Creative Productions**

Burns, K.D., Pieper, P., Liu, H., Stankovich, M. “Studies of the Redox Properties of CDP-6-deoxy-L-threo-D-Glycero-4hexulose-3-dehydrase (E1) and CDP-6-deoxy-L-threo-D-glycero-4-hexulose-3-dehycrase reductase (E3): Two Important Enzymes Involved in the Biosynthesis of Ascarylose”, *Biochemistry*, **35**, 7879, (1996).

### Teaching

Fall 2008 Courses:

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| PHSC 1201 002 - Physical Science Laboratory |
| PHSC 1201 003 - Physical Science Laboratory |
| PHSC 1201 007 - Physical Science Laboratory |
| PHSC 1201 2 - PHYSICAL SCIENCE LAB |
| PHSC 1201 3 - PHYSICAL SCIENCE LAB |
| PHSC 1201 7 - PHYSICAL SCIENCE LAB |
| PHSC 1203 001 - Physical Science |
| PHSC 1203 002 - Physical Science |
| PHSC 1203 003 - Physical Science |
| PHSC 1203 1 - PHYSICAL SCIENCE |
| PHSC 1203 2 - PHYSICAL SCIENCE |
| PHSC 1203 3 - PHYSICAL SCIENCE |

Spring 2009 Courses:

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| PHSC 1201 003 - Physical Science Laboratory |
| PHSC 1201 006 - Physical Science Laboratory |
| PHSC 1201 007 - Physical Science Laboratory |
| PHSC 1201 008 - Physical Science Laboratory |
| PHSC 1201 010 - Physical Science Laboratory |
| PHSC 1201 011 - Physical Science Laboratory |
| PHSC 1201 012 - Physical Science Laboratory |
| PHSC 1201 10 - PHYSICAL SCIENCE LAB |
| PHSC 1201 11 - PHYSICAL SCIENCE LAB |
| PHSC 1201 12 - PHYSICAL SCIENCE LAB |
| PHSC 1201 3 - PHYSICAL SCIENCE LAB |
| PHSC 1201 6 - PHYSICAL SCIENCE LAB |
| PHSC 1201 7 - PHYSICAL SCIENCE LAB |
| PHSC 1201 8 - PHYSICAL SCIENCE LAB |
| PHSC 1203 001 - Physical Science |
| PHSC 1203 002 - Physical Science |
| PHSC 1203 003 - Physical Science |
| PHSC 1203 1 - PHYSICAL SCIENCE |
| PHSC 1203 2 - PHYSICAL SCIENCE |
| PHSC 1203 3 - PHYSICAL SCIENCE |

Fall 2009 Courses:

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| PHSC 1201 002 - Physical Science Laboratory |
| PHSC 1201 003 - Physical Science Laboratory |
| PHSC 1201 007 - Physical Science Laboratory |
| PHSC 1203 001 - Physical Science |
| PHSC 1203 002 - Physical Science |
| PHSC 1203 003 - Physical Science |

Spring 2010 Courses:

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| PHSC 1201 001 - Physical Science Laboratory |
| PHSC 1201 002 - Physical Science Laboratory |
| PHSC 1201 003 - Physical Science Laboratory |
| PHSC 1201 004 - Physical Science Laboratory |
| PHSC 1201 005 - Physical Science Laboratory |
| PHSC 1201 006 - Physical Science Laboratory |
| PHSC 1203 001 - Physical Science |
| PHSC 1203 002 - Physical Science |

Fall 2010 Courses:

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| PHSC 1201 003 - Physical Science Laboratory |
| PHSC 1201 004 - Physical Science Laboratory |
| PHSC 1201 006 - Physical Science Laboratory |
| PHSC 1201 007 - Physical Science Laboratory |
| PHSC 1203 001 - Physical Science |
| PHSC 1203 002 - Physical Science |

Spring 2011 Courses:

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| --- |
| PHSC 1201 001 - Physical Science Laboratory |
| PHSC 1201 002 - Physical Science Laboratory |
| PHSC 1201 003 - Physical Science Laboratory |
| PHSC 1201 004 - Physical Science Laboratory |
| PHSC 1203 001 - Physical Science |
| PHSC 1203 002 - Physical Science |

Fall 2011 Courses:

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| PHSC 1201 003 - Physical Science Laboratory |
| PHSC 1201 004 - Physical Science Laboratory |
| PHSC 1201 006 - Physical Science Laboratory |
| PHSC 1201 007 - Physical Science Laboratory |
| PHSC 1203 001 - Physical Science |
| PHSC 1203 002 - Physical Science |

Spring 2012 Courses:

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| --- |
| PHSC 1201 001 - Physical Science Laboratory |
| PHSC 1201 002 - Physical Science Laboratory |
| PHSC 1201 003 - Physical Science Laboratory |
| PHSC 1201 004 - Physical Science Laboratory |
| PHSC 1203 001 - Physical Science |
| PHSC 1203 002 - Physical Science |

Summer 2012 Courses:

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| PHSC 1201 1OA - PHYSICAL SCIENCE LAB |
| PHSC 1203 1OA - PHYSICAL SCIENCE |

Fall 2012 Courses:

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| PHSC 1201 003 - PHYSICAL SCIENCE LAB |
| PHSC 1201 004 - PHYSICAL SCIENCE LAB |
| PHSC 1201 006 - PHYSICAL SCIENCE LAB |
| PHSC 1201 007 - PHYSICAL SCIENCE LAB |
| PHSC 1203 001 - PHYSICAL SCIENCE |
| PHSC 1203 002 - PHYSICAL SCIENCE |