

TYSON A. MILLER

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EDUCATION

Ph.D. Chemistry (Chemistry Education and Organic Synthesis), 2005

University of Illinois Urbana-Champaign

Thesis Co-Advisors: Prof. Stanley G. Smith, Prof. Scott E. Denmark

Ph.D. Dissertation Title: 1) Progress Toward the Synthesis of Vancosamine Using a Tandem [4+2] / [3+2] Cycloaddition; 2) Discussion Boards and Pre-Lecture Quizzes in Organic Chemistry Courses

M.S. Individual Studies: Medicinal Chemistry, 1999

Central Washington University

Thesis Advisor: Prof. John M. Gerdes

M.S. Thesis Title: Studies of Ligands for the Serotonin Transporter: Preparation of Stereochemically Defined and Constrained Inhibitor Probes

B.S. Chemistry, Biology, Physics; B.A. Mathematics, 1995

Central Washington University

Summa Cum Laude, Dean's Scholar

CERTIFICATIONS

Washington State Emergency Certification (2013-2016): Washington State emergency certification to teach as a substitute teacher at White Swan High School

Master Online Teacher Certificate – Illinois Online Network, 2004

University of Illinois Urbana-Champaign

Online coursework completed in web-based instructional design and assessment

TEACHING EXPERIENCE

Heritage University (July 2011 – present)

Professor of Chemistry (July 2017 – present)

Associate Professor of Chemistry (July 2011 – June 2017)

Science Department Chair (July 2016 – present)

Master of Arts Medical Sciences Co-Director (July 2016 – present)

College in the High School Director - Science Department (August 2012 – present)

College in the High School Coordinator for HU (July 2018 – present)

Courses Taught:

Chemistry 101(L) – Introductory Chemistry (4 semester credits)

One Semester Course Introductory Chemistry Lecture/Lab for Non-Science Majors

Semesters Taught: FA 17-18, SP 17-18-19 Enrollments: 15-49

Chemistry 105(L) – Intermediate Chemistry (4 semester credits)

One Semester Bridge Course to General Chemistry Lecture/Lab for Science and Biomedical Majors

Semesters Taught: SU 14-15-16, SP 19 Enrollments: 4-6

Chemistry 110(L) – General Chemistry I (4 semester credits)

First Semester General Chemistry Lecture/Lab for Science and Biomedical Majors

Semesters Taught: FA 11-13, 15; SP 12 Enrollments: 4-23

Chemistry 111(L) – General Chemistry II (4 semester credits)

Second Semester General Chemistry Lecture/Lab for Science and Biomedical Majors

Semesters Taught: SP 12-16, 18; SU 12 Enrollments: 4-23

Chemistry 201(L) – Introductory Organic/Biochemistry (4 semester credits)

One Semester Organic/Biochemistry Lecture/Lab for Nursing Majors

Semesters Taught: FA 11 Enrollments: 4

Chemistry 202(L) – Organic & Biochemical Processes of the Human Body (4 semester credits)

One Semester Organic/Biochemistry/Nutrition Lecture/Lab for Nursing Majors
Semesters Taught: SP 15-16-17-18-19 Enrollments: 17-30

Chemistry 305(L) – Survey of Organic Chemistry (4 semester credits)

One Semester Organic Chemistry Survey Lect./Lab for Science and Biomedical Majors
Semesters Taught: FA 14-15-16-17-18 Enrollments: 6-13

Chemistry 310(L) – Organic Chemistry I (4 semester credits)

First Semester Organic Chemistry Lecture/Lab for Science and Biomedical Majors
Semesters Taught: FA 11-13-16-17-18, SP 12 Enrollments: 5-10

Chemistry 311(L) – Organic Chemistry II (4 semester credits)

Second Semester Organic Chemistry Lecture/Lab for Science and Biomedical Majors
Semesters Taught: SP 13-14-17-18-19 Enrollments: 4-10

Chemistry 312(L) – Bioorganic Chemistry (4 semester credits)

One Semester Bioorganic Chemistry Lecture/Lab for Science and Biomedical Majors
Semesters Taught: SP 14-15-16 Enrollments: 6-16

Chemistry 331(L) – Environmental Chemistry I (4 semester credits)

One Semester Lecture/Lab for Environmental Science Majors
Semesters Taught: FA 14 Enrollments: 3

Chemistry 410(L) – Biochemistry I (4 semester credits)

First Semester Biochemistry Lecture/Lab for Science and Biomedical Majors
Semesters Taught: FA 18 Enrollments: 12

Chemistry 411 – Biochemistry II (3 semester credits)

Second Semester Biochemistry Lecture for Science and Biomedical Majors
Semesters Taught: SP 19 Enrollments: 12

Physical Science 101(L) – Introductory Physical Science (4 semester credits)

One Semester Physical Science Lecture/Lab for Preservice Teachers
Semesters Taught: SP 17 Enrollments: 7

Environmental Science 240(L) – Intro to Environmental Chemistry (4 semester credits)

One Semester Lecture/Lab for Environmental Studies Majors
Semesters Taught: FA 14 Enrollments: 3

Plus Seminar and Special Topics Courses

SERVICE EXPERIENCE

Heritage University Service, Outreach, and Workshops Summary:

Science Department Chair (July 2016-present): scheduling classes; revising curricula for degree programs (B.S. Biology, B.A. Biology, B.S. Chemistry, B.A. Biology, B.S. Medical Lab Sciences; B.S. Combined Sciences; B.A. Science Education – Chemistry; B.A. Science Education – Biology); mentoring junior faculty

Master of Arts in Medical Sciences Co-Director (July 2016-present): oversee administrative aspects of the program, including reviewing of applicant files, student pre-med advising, supervise Program Assistant Kathy Kammerdiener (July 2016-May 2018); Michelle Alegria (June 2018-present).

College in the High School Program Director for Science Department (partnership with White Swan High School (August 2012-present); Davis High School, Eisenhower High School (January 2016-present); Granger High School (July 2018-present); for all of HU Campus (July 2018-present): coordinate with all science teachers at the high schools for integration and assessment of HU curricula in high school classrooms

Academic Advisor (July 2011-present): advising Science department majors; 20-100 students

PROFESSIONAL ORGANIZATIONS

American Chemical Society (1992 – present)

HONORS, AWARDS, AND CERTIFICATIONS

Heritage University TRiO Staff/Faculty of the Year Award 2015-2016

Washington State Emergency Teaching Certificate (2013-2016): Washington State emergency certification to teach as a substitute teacher at White Swan High School

Master Online Teacher Certificate – Illinois Online Network, 2004

(includes online coursework completed in the following subjects)

- Online Learning: An Overview
- Web Design Development
- Instructional Design of Online Courses
- Assessment of Online Courses
- Encouraging Communication in Online Courses
- Practicum

Graduate Teacher Certificate – University of Illinois, 2004

UIUC School of Chemical Sciences – Excellence in Teaching Award, 2001

Summa Cum Laude – Central Washington University, 1995

Dean’s Scholar – Central Washington University, 1995

LOCAL NON-ACADEMIC SERVICE

Mountainview Fellowship Interim Senior Pastor (March 2016 – October 2016; April 2018 – present)

Calvary Chapel Yakima Valley Administrative Minister and Children’s Ministry Coordinator (February 2014 – August 2015)