

Wendy M. Young

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EDUCATIONAL BACKGROUND

UNIVERSITY OF COLORADO Boulder, CO, August 1998 – May 2002

Ph.D. Chemical Engineering, Overall GPA: 3.85/4.0

Advisor: Dr. Robert Davis

UNIVERSITY OF COLORADO Boulder, CO, August 1996 – August 1998

M.S. Chemical Engineering, Overall GPA: 3.85/4.0

Co-advisors: Dr. Robert Davis and Dr. Chris Bowman

UNIVERSITY OF NOTRE DAME Notre Dame, IN, August 1992 – May 1996

B.S. Chemical Engineering, Overall GPA: 3.6/4.0

ACADEMIC AND RELEVANT EMPLOYMENT HISTORY

UNIVERSITY OF COLORADO Boulder, CO

1/09 – Present

Positions: *Associate Chair (2017-present)*

Teaching Professor (2022-present)

Senior Instructor (2016-2021)

Instructor (2009-2016)

Director of External Relations (2012-2016)

INTEL CORPORATION Hillsboro, OR

10/02 – 5/08

Senior Process Engineer

UNIVERSITY OF COLORADO Boulder, CO

8/96 – 5/02

Research Assistant

UNIVERSITY OF NEW SOUTH WALES Sydney, Australia

2/01 – 4/01

Academic Intern

UNIVERSITAT ROVIRA I VIRGILI Tarragona, Spain

9/98 – 11/98

Academic Intern

HONORS AND AWARDS

- Department of Chemical and Biological Engineering Outstanding Faculty Mentor Award, 2023, 2022, 2021, 2020, 2019, 2014 (student-presented)
- Max S. Peters Faculty Service Award, 2023
- Boulder Faculty Assembly (BFA) Excellence Award for Leadership and Service, 2022
- College of Engineering and Applied Science Outstanding Teaching Award, 2021
- Department of Chemical and Biological Engineering Outstanding Service Award, 2019
- Department of Chemical and Biological Engineering Outstanding Service Award, 2014
- Department of Chemical and Biological Engineering Outstanding Faculty Undergraduate Teaching Award, 2012 (student-presented)
- Intel PTD Litho Divisional Award, 2007
- American Institute of Chemists Graduate Award in the Department of Chemical Engineering at CU, Boulder, 2002
- DOE Graduate Assistantships in Areas of National Need (GAANN) Fellowships, 1998-1999, 1999-2000, 2000-2001, and 2001-2002
- Colorado Institute for Research in Biotechnology Fellowship, Fall 2000
- North American Membrane Society (NAMS) 1997-1998 Fellowship
- University Fellowship from University of Colorado Graduate School, Boulder, CO, 1996-1997
- Award Winner in Twelfth Annual Colorado Biotechnology Symposium, Boulder, CO, 1999

TEACHING EXPERIENCE

- University of Colorado, Boulder, CO (most recently taught courses bolded) 1/09 – Present
 - (3 cr) CHEN 1000 Creative Technology
 - (1 cr) CHEN 1300 **Introduction to Chemical Engineering**
 - (3 cr) CHEN 1310 Introduction to Computing
 - (3 cr) CHEN 3130 Chemical Engineering Laboratory I
 - (1 cr) CHEN 3211 Mass Transfer (8 videos created)
 - (3 cr) CHEN 3220 **Chemical Engineering Separations** (14 videos created)
 - (1 cr) CHEN 3930 Chemical Engineering Cooperative Education
 - (2 cr) CHEN 4010 Senior Thesis I
 - (2 cr) CHEN 4020 Senior Thesis II
 - (1 cr) CHEN 4090 **Undergraduate Seminar**
 - (3 cr) CHEN 4130 Chemical Engineering Laboratory (78 videos created)
 - (3 cr) CHEN 4520 **Chemical Process Design** (11 videos created explaining three simulation platforms)
 - (2 cr) CHEN 4530 **Chemical Engineering Design Project**
 - (3 cr) CHEN 4830 **Process Safety Engineering** (newly created course)
 - (2 cr) GEEN 1500 Introduction to Engineering
- Front Range Community College, Westminster, CO 10/08 – 12/08
 - Instructor for Chemistry and Chemistry Lab
- Colorado Technical University, Westminster, CO 10/08 – 12/08
 - Instructor for two separate classes: (1) Algebra and (2) The Impact of Science and Technology on Society
- Intel Corp, Hillsboro, OR 10/02 – 5/08
 - Taught weekly Litho U and Track U to new engineers
 - Taught processing techniques to new engineers, technicians, and contractors from OR, AZ and Ireland
- University of Colorado, Boulder, CO 6/97 – 8/01
 - Supervising graduate student; supervised 7 undergraduate students
- University of Colorado, Boulder, CO 8/00 – 12/00
 - Advanced teaching assistant for CHEN 2120, Material and Energy Balances
- University of Colorado, Boulder, CO 8/96 – 12/96
 - Teaching assistant for CHEN 1221, General Chemistry Lab

LEADERSHIP AND SERVICE

UNIVERSITY OF COLORADO Boulder, CO

1/09 – Present

Positions: *Associate Chair (2017-present)*

Teaching Professor (2022-present)

Senior Instructor (2016-2021)

Instructor (2009-2016)

Director of External Relations (2012-2016)

- Department Leadership and Service
 - Led search committees which successfully hired two new teaching faculty in 2024, a Lab Coordinator in 2023, and instructors in 2021 and 2019. Wrote the job descriptions for teaching faculty, the lab coordinator, and the Communications and Outreach Specialist position. Served on search committees for other positions such as Electronics Engineering and BME teaching faculty.
 - Implemented UG Student Wellness initiatives such as creation of ChBE Ambassador program; CEAS academic tutor pilot for spring 2025; monthly donuts; welcome back picnic and taco bar in fall and spring, respectively; student snack tables; student surveys; a weekly CAPS counselor in JSCBB; Engineering Fellow office hours; and Town Hall meetings.
 - Serve as the department's software liaison with OIT with duties including licensing, updating, and testing with OIT programs such as Aspen Plus/HYSYS, SuperPro, COMSOL, AutoCAD Plant 3D, Minitab, Polymath, and ChemDraw; additionally manage the Undergraduate Lab MOU with OIT.
 - Co-directed the department's External Advisory Board activities for over a decade, including suggesting new members, helping shape the agenda and carrying out board-suggested initiatives such as the Senior Exit Interviews, ASMP and 1904 Society.
 - Mentor two teaching faculty.

- Maintain strong industrial relationships through invited speaker seminars and creation of student interaction opportunities.
- Promote and manage undergraduate and graduate job and scholarship opportunities with a goal of fostering and growing company relationships.
- In 2014, launched the department's Alumni Student Mentor Program matching alumni with sophomores, juniors and seniors to foster professional growth; 65 student/alumni matches the first year and over 450 matches through 2025; continue to direct the program.
- Upon success of the ASMP, launched the Peer Mentor Program (PMP) in 2015 to match freshmen & sophomores with seniors. 25 matches the first year, growing to over 270 matches through 2021.
- Co-led the department's move to remote learning during the pandemic, including rescheduling courses; leading faculty training of online platforms; scheduling and leading student town halls; and keeping students updated.
- Director of Undergraduate Program
 - Spearheaded and implemented Chemical and Biological Engineering B.S. degree name and curriculum change to current Biological Engineering B.S. degree.
 - Created Biological Engineering and Chemical Engineering minors.
 - Serve as department ABET Coordinator and successfully obtained reaccreditation in the 2023 and 2017 audits. Presented several times to fellow collegewide ABET Coordinators to share best practices.
 - Work closely with Communications and Outreach Specialist on marketing materials and student engagement. Spearhead efforts such as solar flashlight gifts for admitted students, senior t-shirt design contest, recruiting letters and emails, and department promotional material creation such as videos and flyers.
 - Drive student award nominations in the fall and spring.
 - Assign graduate Teaching Assistants (TAs and Advanced TAs).
 - Work with staff on course and common final scheduling.
 - As department study abroad faculty advisor, grew approved study abroad programs to five.
 - Review all petitions; approve Independent Study & transfer credits; update course catalog.
 - Push through faculty-approved class creation such as Fundamentals of Biotechnology and Gourmet Science as well as course changes such as switching Heat Transfer to Heat & Mass Transfer and Separations & Mass Transfer to Separations
 - Lead monthly Undergraduate Committee meetings.
 - Serve on department's Leadership Team and Executive Committee.
 - Head of department's ad hoc Honor Code Committee.
 - Created Teaching Evaluation documentation to standardize teaching evaluations.
 - Until 2021, oversaw CHEN Undergraduate Lab, including securing funding for and building new experiments.
- College of Engineering & Applied Science (CEAS) Service
 - Serve as college representative to the campus Education Abroad Committee.
 - Served as CEAS representative to the campus Common Curriculum Planning Committee (CCPC).
 - Spearheaded creation and implementation in fall 2020 of a new Chemistry pathway for all engineering students (newly created General Chemistry for Engineers 1 and 2).
 - During the move to remote learning served on four college working groups (Group Five or "Remote and Online Lecture Best Practices," CU101, Design, and Large Lectures).
 - CEAS ProReady Work Group member.
 - Served as a speaker for the college's 2021 Summer Teaching Symposium and as a moderator for the college's summer 2020 What's Your Plan Symposium.
 - Served on the CEAS Student Health & Wellness Task Force and subcommittee.
 - Lead and organize ChBE efforts in student recruitment events such as the Engineering Sampler, Explore Engineering Days, ASPIRE Summer Bridge Program, Academic Expectations and Success Sessions, Admitted Student Day, Open Option panels, and Boettcher Finalist Visits.
 - Presented several times to fellow collegewide ABET Coordinators to share best practices.
 - Served as the college's Tau Beta Pi Faculty Advisor for five years.
- DEI Efforts
 - Created a Diversity & Inclusion in Engineering lecture which is given to first year students annually.
 - Incorporated *So You Want to Talk About Race* by Ijeoma Oluo as required reading in the first year Introduction to Chemical Engineering course.

- Require all sophomores to investigate and report on DEI efforts in multiple companies as part of required Undergraduate Seminar course.
- Work with students to put on DEI events such as a 50+ person DEI Coffee Hour and a 60+ person Cultural Movie Night.
- Supported and in some cases co-authored multiple student-led URM-focused research and tutoring proposals.
- As member of the department's past DEI Committee and co-led multiple events and student retention subcommittees.
- Work with CEAS Advancement to improve fundraising.
- Student, Alumni and Industry Engagement
 - Conduct 1:1 career advising for over 40 undergraduate students annually.
 - Help companies schedule informational sessions, speak in classes and coordinate facility tours.
 - Served as the AIChE and OXE faculty advisor for six years, editing funding proposals, helping bring in industrial speakers and arranging plant tours; continue to help by coordinating tours, bringing in speakers and booking rooms.
- Quick to help others with miscellaneous tasks as needed.