

Carol E. Hood

Department of Physics
California State University, San Bernardino
5500 University Parkway
San Bernardino, CA 92407

Maiden Name: Thornton
chood@csusb.edu
Work (909) 537-5389

EDUCATION

PhD. Physics & Astronomy, University of California, Irvine	2011
M.S. Physics & Astronomy, University of California, Irvine	2007
B.S. Physics, Virginia Polytechnic Institute and State University	2004

EMPLOYMENT

Associate Professor, CSUSB, San Bernardino, CA	2016-present
Director, Murillo Family Observatory, CSUSB, San Bernardino, CA	2015-present
Assistant Director, Murillo Family Observatory, CSUSB, San Bernardino, CA	2012-2015
Assistant Professor, CSUSB, San Bernardino, CA	2012-2016
Assistant Professor, Augusta State University, Augusta, GA	2011-2012

COLLEGE, UNIVERSITY, AND DISCIPLINE-SPECIFIC COMMITTEE WORK

- Co-Director, Cal-Bridge South (2018-present)
- Member, Cal-Bridge South Steering Committee (2013-2018)
- CSUSB Faculty Mentor, Cal-Bridge Scholarship Program (2013-present)

Evaluate current and potential scholars for continuation or acceptance into the program. Design and provide professional development workshops for scholars, including Imposter Syndrome, Graduate Essay Development and Peer Review, GRE prep, In's and Out's of Graduate School, etc. Monitor the progress of all Cal-Bridge scholars, providing advice and guidance as necessary. As a mentor to 2-3 scholars each year, I meet with the scholar every two weeks to keep track of their academic progress and work-life balance. I provide reports to the Steering Committee as to the academic progress of all CSUSB scholars, requesting grade estimates and comments from their instructors quarterly. I provide advice and guidance as to summer research program and graduate school applications and selection.

- Co-Chair, College Curriculum Committee (2017-present)
- Member, College Curriculum Committee (2014-present)

Normally duties include reviewing and approving curriculum changes each year for the college. Since 2017, the duties increased significantly as every program and course in the college needed to be redesigned for the semester system. Many departments used this as an opportunity to completely transform their program curricula to meet to changing needs of the student population and their discipline.

Councilor, CUR Division of Physics & Astronomy (2017-present)

Elected to a 3 year term to begin on July 1, 2017. Work on promoting undergraduate research in physics and astronomy across the nation. Chairing the mentor awards committee tasked with redesigning the mentor award application and selection criteria. Serving as the CUR liaison to the AAAS SEA Change initiative.

Member, GE Assessment Group (2016-2017)

Chair, GE Assessment Sub-Group (2016-2017)

Studied the national trends regarding General Education assessment and considering the specific needs and voices of our local campus community are creating a new coherent set of general education assessment guidelines to be implemented in 2020. As chair of one sub-group, I facilitated discussions regarding the specific assessment needs and procedures for our local campus while still providing a rigorous general education program.

Member, GE Faculty Inquiry Group (2016-2017)

Chair, GE Faculty Inquiry Sub-Group (2016-2017)

Studied the national trends regarding General Education program design and considering the specific needs and voices of our local campus community designed a new general education program to be implemented in 2020. As chair of one sub-group, I facilitated discussions regarding how to meet our local needs while still providing a valuable general education experience.

Member, University Calendar Committee (2015-present)

Normally duties include planning each academic year calendar. Additional duties for past year include redesigning our weekly class schedule and nominal course units for our conversion from quarters to semesters. This year has focused on finalizing the semester-system general calendar and the 2020 short summer calendar.

Member, GE Think Tank (2015-2016)

Developed a coherent set of General Education Learning Outcomes to base future GE courses and structure of courses based on our campus desires and nation-wide GE trends.

Member, University Diversity Committee (2014-present)

Design and fund programming for promoting diversity, equity, and inclusion. Provide recommendations to various university entities regarding diversity equity and inclusion.

RECENT GRANT PROGRAMS

NSF WIDER - ISSUES (2013-2016)

NSF IUSE - ISSUES-X (2017-present), PI (2018-present)

Funded a pilot program to investigate and implement evidence-based teaching practices into high failure rate courses in the College of Natural Science at CSUSB. ISSUES-X is greatly expanding this pilot program to the majority of the faculty, both tenure-line and adjunct in the College of Natural Sciences. It includes various faculty learning communities consisting of chairs, adjuncts, and tenure/tenure-track faculty. The model will be piloted on other campuses in the system towards the end of the grant.

NSF PAARE - Cal-Bridge

NSF S-STEM - Cal-Bridge

NSF S-STEM - Cal-Bridge, Co-Director (2018-present)

A California State University-University of California undergraduate to graduate scholarship bridge program for southern California schools. Given the student populations enrolled in California State University campuses, we aim to increase the number of under-represented groups obtaining doctoral degrees in astronomy or related fields through financial support and intensive mentoring at the undergraduate level.

SELECTED PUBLICATIONS

Thornton, S. T., Rex, A. R., & **Hood, C. E.**, "Modern Physics for Scientists and Engineers", 5th Ed., Cengage (2019)

Hood, C. E., Barth, A. J., Ho, L.C., & Greene, J. E., "A Spitzer Spectral Atlas of Active Galactic Nuclei", *ApJ*, 838, 26, (2017)

den Brok, M., Seth, A. C., Barth, A. J., Carson, D. J., Neumayer, N., Cappellari, M., Debattista, V. P., Ho, L. C., **Hood, C. E.**, McDermid, R. M., "Measuring the mass of the mass of the central black hole in the bulgeless galaxy NGC 4395 from gas dynamical modeling", *ApJ*, 809, 101, (2015)

Hood, M. A., **Hood, C. E.**, LoPresto, D., Terndrup, D., Smecker-Hane, T. A., "Testbank for 21st Century Astronomy: Fourth Edition", W. W. Norton & Comp., (2013)

PROFESSIONAL SOCIETY MEMBERSHIPS

American Association of Physics Teachers

American Astronomical Society

American Physical Society

Council on Undergraduate Research

Phi Kappa Phi

Sigma Pi Sigma