

BRENT STUDER

SCIENCE EDUCATOR AND CONTENT DEVELOPER | WRITER AND EDITOR

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SUMMARY AND KEY SKILLS

Educator and advocate with extensive experience in driving students to academic success. Adept at creating science content and curricular material for use in Science, Mathematics, and English Language Arts contexts that prepares students for postsecondary education. Keen communicator, leader, and collaborator, optimizing a unique perspective and skillset to engage new and non-traditional students with accessible and interesting content, influencing positive outcomes. Areas of expertise: Earth and Space Sciences, Physics

Science Assessment and Curriculum Development | Teaching | Training, Coaching, and Mentoring | Test Preparation | Public Speaking and Engagement | Science Communication and Outreach | STEM Education | Cross-disciplinary Collaboration | Academic Advising | Instructional Design | Educational Technology | Website Design and Maintenance | Grant Writing | Team Building | Workflow Management | Resource Optimization | Talent Acquisition and Hiring | Leadership and Development | Prioritization

TECHNICAL SKILLS

Microsoft (MS) Office Suite: Word, Excel, PowerPoint | Apple OS, Keynote, Numbers, Pages | Video Conferencing: Teams, Zoom, Vidyio | SmartSheet | Adobe Acrobat Pro and Creative Cloud: Photoshop, InDesign, Dreamweaver | D2L Brightspace | Website Development: HTML, CSS, WordPress, Joomla

PROFESSIONAL EXPERIENCE

Kirkwood Community College, Iowa City and Cedar Rapids, Iowa
Adjunct Instructor—Introduction to Astronomy

09/1990 – Present

- Effectively communicate astrophysical material and provide instruction in face-to-face and online formats.
- Create content for presentations and develop student activities.
- Maintain course space in D2L Brightspace course management system.
- Monitor student performance, submit grade reports, and communicate with collegiate departments and staff.

The College Board, Coralville, Iowa
Director, Science Assessment Development

09/2013 – 03/2021

Contributed to the development of the English Language Arts (ELAL) and Mathematics portions of the SAT Suite of Assessments. Searched scientific journals and sources of popular science writing for topics suitable for use on the Reading and Mathematics tests.

- Reviewed excerpts of published popular science articles and related journal article submitted by team members, independent contractors, and vendors for clarity and scientific accuracy.
- Authored and revised science passages for use on the Writing & Language portion of the PSAT and SAT.
- Reviewed science-context Math items and provided feedback to Math team members to ensure scientific accuracy.
- Reviewed completed test units for Reading as well as Writing and Language to ensure items were scientifically correct and accurately reflected content in the passages.
- Participated in reviews of assembled PSAT and SAT test forms and served in committee meetings with external subject matter experts (SMEs), coordinating reviews of science-context materials.
- Trained vendors on PSAT and SAT ELAL criteria, and provided feedback on submitted science passages.
- Provided feedback and advice to Writing and Language team members to ensure science content remained accurate during the revision process.

- Revised charts, graphs, and tables for use on test units while ensuring scientific content was accurately presented.
- Assessed Advanced Placement (AP) Physics items and scoring rubrics for accuracy and completeness.
- Conducted security review of AP Physics items to ensure questions could not be answered by circumventing security measures.

The University of Iowa, Iowa City, Iowa**STEM Education Specialist, The Upward Bound Project****01/2001 – 09/2013**

Collaborated with other specialists to develop and deliver interdisciplinary curriculum to low-income, potential first-generation college students and assisted them and their families as they navigated the college admission process.

- Developed and presented STEM-based components of interdisciplinary curriculum
- Created newsletters, informational brochures, and flyers for participating students and families.
- Advised students and assisted with completion of college applications, the Free Application for Federal Student Aid (FAFSA), FAFSA verification, and scholarship applications.
- Developed curriculum for and taught graphic design and physics seminars during summer residential program.
- Designed and provided ongoing maintenance of departmental website.
- Maintained departmental computers and provided IT support and software instruction to staff.
- Formatted US Department of Education grants and electronically submitted all required documentation.
- Aided in the interpretation of grant regulations and reviewed financial reports for accuracy.
- Coordinated and supervised completion of annual report submitted to the US Department of Education.
- Served on search committees and interviewed candidates for permanent staff and summer program positions.
- Supervised teachers, technology staff, and residence hall advisors during the summer residential program.
- Installed and configured a wireless computer lab for student use during the summer residential program.

ADDITIONAL RELEVANT EXPERIENCE**NCS/Pearson Education, Iowa City, Iowa****Scoring Director**

Directed and trained team leaders and professional scorers for the National Assessment of Educational Progress (NAEP) Science and Geography assessments, the Trends in International Math and Science Study (TIMSS/TIMSS-R), and district and state assessments. Coordinated the construction of range-finding materials and final training sets, monitored scorer reliability and project progress to ensure accuracy and timely completion of projects.

EDUCATION**Master of Science, Astronomy, The University of Iowa, Iowa City, Iowa****Bachelor of Science, Physics and Astronomy, The University of Iowa, Iowa City, Iowa****Associate of Arts & Associate of Science, North Iowa Area Community College, Mason City, Iowa****ADDITIONAL INFORMATION**

- Science Olympiad Mentor: Over 80% of Division B (grades 6 - 9) teams mentored have won first place in statewide Reach for the Stars and The Solar System competitions
- Informal Astronomy Outreach: Over 40 presentations to the general public, school groups, and local organizations