



## Stephanie Ryan, Ph. D.

OWNER AND PRINCIPAL CONSULTANT

**Phone:**

773.828.4422

**Email:**

sryan@ryaneducationconsulting.com

K-12 Assessment • Qualitative Research  
Curriculum Development • E-Learning

## About Ryan Education Consulting

Ryan Education Consulting delivers research-based educational products for both the K-16 and corporate settings. Ryan Education Consulting utilizes learning theory and content expertise to develop content that will stick with people (students or employees) and/or truly assess what they understand.

[READ MORE](#)

## EXPERIENCE

### 2016-PRESENT

Owner and Principal Consultant  
*Ryan Education Consulting*

- Provide the following services for clients: Code and analyze qualitative data; Design interview protocols and conduct interviews; Develop curricular materials as well as supplemental materials; Write K-16 assessment items for mathematics and science; Act as a Fairness Specialist for all subject areas; Design informal learning environments; Align curricular materials to standards

Provide the following services for clients in the US and the UK:

	<ul style="list-style-type: none"> <li>• Code and analyze qualitative data</li> <li>• Design interview protocols</li> <li>• Conduct interviews and lead focus groups</li> <li>• Develop curricular materials and supplemental materials</li> <li>• Write K-16 assessment items for mathematics and science</li> <li>• Act as a Fairness Specialist for all subject areas</li> <li>• Design informal learning environments</li> <li>• Project evaluation</li> <li>• Bespoke curriculum design</li> </ul>
<p><b>2013-2016</b></p> <p>Science Test Development Specialist</p> <p><i>American Institutes for Research</i></p>	<ul style="list-style-type: none"> <li>• Developed science assessment materials that align with appropriate curriculum and content standards. Worked with clients to develop test and item specifications and other supplementary materials. Wrote, reviewed, and edited test items and scoring rubrics that followed grade-level and content requirements for mathematics and science. Assisted the ELA team in passage finding and fact checking of science related passages. Constructed and reviewed assessments to meet test blueprints. Facilitated item and form review meetings with education professionals. Assisted with tasks such as test-taking, range-finding and scoring of free response items, and finalizing item banks prior to delivery to customer. Addressed client feedback and responded to client needs to ensure a quality product and customer satisfaction. Led committee meetings with teachers and client to review developed items. Served as a bias and sensitivity expert for Mathematics, ELA and Science items. Oversaw the development of science items, forms, and ancillary materials to ensure that best practices and client satisfaction were achieved. Used item types in new and innovative ways to expand the ways in which content could be assessed. Trained staff and clients in novel uses of propriety software. Was responsible for item development and assembly of all science assessment forms in the States of Utah and Hawai'i. Worked with grade level leads, the client, and teachers throughout all stages of development. Interacted with project management to develop a schedule for development across 9 grades; Helped generate business by responding to RFPs. Aligned and wrote item clusters to the NGSS standards.</li> </ul>
<p><b>2013</b></p> <p>Script Writer</p> <p><i>American Chemical Society</i></p>	<ul style="list-style-type: none"> <li>• Wrote scripts for lab videos as a consultant for the 6th Edition of Chemistry in the Community to be used by students and teachers; Worked as a freelance consultant.</li> </ul>
<p><b>2013</b></p> <p>Instructor</p> <p><i>Learning Sciences Course -UIC</i></p>	<ul style="list-style-type: none"> <li>• Developed syllabus for a workshop style course for Learning Sciences graduate students that taught the skills of being an academic by inclusion as a member of a community of practice. Skills included: resumes, CVs, speaking across disciplines, reading across disciplines, grant writing, journal reviewing, grant reviewing.</li> </ul>
<p><b>2011-2013</b></p> <p>Curriculum Designer and Researcher</p> <p><i>The Connected Chemistry Curriculum -UIC</i></p>	<ul style="list-style-type: none"> <li>• Helped design and create curricular materials for nine chemistry units; Conducted site visits and provided feedback for design changes; Conducted qualitative interviews with students and teachers regarding user interface of simulation and workbook materials; Supervised five undergraduate students in research and analysis duties; Conducted interviews with students and teachers as part of a curriculum efficacy study and design-based research; Revised curricular materials to include metacognitive reflection and better embedded formative assessment items; Met with Chicagoland area district officials to create collaborations; Led and organized professional development sessions; Directed data collection and analysis for an efficacy study; Developed assessment items to measure efficacy of the curriculum; Conducted site visits; Managed the IRB paperwork for the project and the production timeline of materials; Trained and supervised undergraduate and graduate students in interviewing techniques and data analysis; Aligned curriculum to state and NGSS standards.</li> </ul>
<p><b>2010-2011</b></p> <p>Item Writer</p> <p><i>American Chemical Society</i></p>	<ul style="list-style-type: none"> <li>• Wrote items as a consultant for the 6th Edition of Chemistry in the Community Test Bank; Aligned previous editions' questions to the new edition; Wrote new items for sections that were new to the edition.</li> </ul>
<p><b>2009-2011</b></p> <p>science37 Instructor</p> <p><i>After School Matters</i></p>	<ul style="list-style-type: none"> <li>• Instructor for after school program for inner city youth; Started as co-instructor for Lab 101/102 at Foreman High School in a course that was focused on biology and chemistry; Designed my own program to be started in 2010-2011 school year at Crane High School; Sole instructor of courses that focused on forensics and</li> </ul>

		health/medicine; Worked with Chicago Cares as part of a focus on service work in the community.
<b>2006-2011</b> Researcher <i>UIC</i>	•	Developed an interview protocol for dissertation work; Conducted interviews and analyzed data using grounded theory; Developed an instrument to measure student understanding of molarity concepts; Developed an activity using contrasting cases to highlight the intensive nature of molarity; Helped develop an interview protocol for a multi-year Student Understandings of Solutions project; Conducted interviews and analyzed qualitative data; Oversaw the training of graduate students and undergraduate students on the project in interview methods and data analysis; Presented work at national conferences; Managed the IRB paperwork for the project and scheduled interviews; Co-developed an instrument to measure motivation and self-efficacy of students and their teachers in chemistry courses within Chicago Public Schools.
<b>2007-2009</b> HST Instructional Development System Fellow <i>Loyola University/UIC</i>	•	Assisted in the development, implementation, and assessment of the curriculum as a content expert as part of the Bill & Melinda Gates Foundation High School Transformation Project; Assisted in creation of standardized formative assessments and management of materials for the schools; Developed a more effective materials delivery system; Assisted in Professional Development planning and implementation; Formed working relationships with teachers and students; Aligned curriculum goals with state standards; Helped develop model lessons and content guides for teachers; Managed the materials lists for chemical kits for the project; Assisted in the development of formative assessments with American Institutes for Research (AIR); Co-taught lessons with teachers.
<b>2006</b> Instructor for General Chemistry II and ASCEND Lab Sections <i>UIC</i>	•	Organized and independently taught a discussion section; Taught lab; Tutored students; Graded assignments and exams. Taught a CASPiE module to incoming freshmen students who participated in the summer ASCEND program; Responsible for guiding twelve students through term-long projects at different stages of progress; Provided daily feedback on student lab reports.
<b>2004-2006</b> National Science Foundation GK-12 Fellow <i>UIC</i>	•	Content specialist for both middle school and high school teachers in the subject areas of Environmental Science, Life Science, and Chemistry; Created labs and taught activities independently; Formed working relationships with both teachers and students; Taught students proper presentation skills.
<b>2003</b> Teaching Assistant for General Chemistry for Nurses <i>Saint Mary's College</i>	•	Taught three nursing chemistry lab courses and supervised 15-25 students per class; Found similar topics in nursing for comparison; Tutored students; Created quizzes and graded lab reports; Collaborated with professor regarding lab and lecture course needs.

## EDUCATION

**B.S., Chemistry, Saint Mary's College**  
**M.S., Chemistry (with thesis), University of Illinois at Chicago**  
**Ph.D., Learning Sciences, University of Illinois at Chicago**

Stephanie Ryan received her doctorate from the Learning Sciences program at the University of Illinois at Chicago (UIC) in 2011. She has a B.S. in Chemistry from Saint Mary's College and an M.S. with thesis from UIC. Her dissertation titled "Student Ratio Use and Understanding of Molarity Concepts Within Solutions Chemistry" examined the relationship between student understanding of concepts of molarity and their mathematical understanding of ratio. She is interested in student understandings of chemistry concepts, curriculum development, assessment writing, and urban education.



Contact Ryan Education Consulting with your project ideas for a price quote.

Name	Email
Subject	
Message	

Send

Stephanie Ryan, Ph. D.

OWNER AND PRINCIPAL CONSULTANT

**Phone:**  
773.828.4422

**Email:**  
[sryan@ryaneducationconsulting.com](mailto:sryan@ryaneducationconsulting.com)

K-12 Assessment • Qualitative Research  
Curriculum Development • E-Learning

2017 Ryan Education Consulting.  
Powered by Quinnconcepts.