"QR in the non-STEM disciplines at Wellesley College"

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Quantitative Reasoning Program

Our Efforts Are/Were In...
- Courses (Intro and non-STEM courses)
- The "Celebrating QR Connections" Series (special workshops and lectures)
- "Pathways" research project -- our old summer bridge program
- Graphs, tables, quantitative evidence in papers across the curriculum (esp. in Writing Program)
- Our new Quantitative Analysis Institute

QR 140: Introduction to QR
- Lectures & computer labs (mainly using Excel)
- Emphasis on practical uses of logic, math, statistics; QR skills taught "just-in-time"
- Non-STEM topics include:
  - Education data
  - US demographics
  - Personal finance

EDUC 314: Learning and Teaching Mathematics
- A QR approach to how we learn and understand and teach:
  - Numbers and operations
  - Patterns, functions, algebra
  - Geometry, measurement, estimation
  - Probability and statistics

Several QR Overlay Courses in the Social Sciences
- Emphasis is on data analysis
- Economics
- Psychology
- Sociology
- Political Science
- Environmental Studies (GIS focus)

"Celebrating QR Connections" Series
Three to five events in each series
- QR & Art (Spring 2004)
- QR & Biology (Fall 2005)
- QR & Forensic Evidence (Spring 2007)
- QR, Polling & Predictions (Fall 2008)
- QR & Women’s Health (Spring 2010)
- QR & Sustainability (Fall 2011)
- QR & Engineering (Spring 2013)
- QR & Anthropology (Fall 2014)
QR & Art: Khandekar

How does the cross-section above inform us about how to preserve the painting to the right?

QR, Polling & Predictions: Greenberg

QR in “Pathways Program”

- Former Summer Bridge Program
- Computer Science and the Internet
- Made electronic portfolio
- Research paper on “The Digital Divide”
- Support with the quantitative evidence, incorporating meaningful tables and graphs and in-text explanations

Work with the Writing Program

- Sharing lessons from QuIRK’s QR in writing with faculty in Writing Program, e.g., common problems with
  - “weasel words”
  - “the staple effect”
  - numbers but no context
  and how to construct better instructions for paper assignments

Quantitative Analysis Institute

- Statistician to help train students on practical statistical matters, e.g., merging data sets, dealing with missing data
- QAI Fellows can help students in quant classes and help faculty as RAs
- Statistician helps faculty directly with research, as well
- Social Sciences as well as Sciences