**Overview:** Dr. Nelson's Scholarship of Teaching and Learning focuses on the scholarships of synthesis and application (per Boyer and Rice). When he began working in this area, it was clear that the empirical and theoretical base for much improved college teaching was well already in hand. The major effort needed was in developing ways to apply this base in the classroom. He has worked to develop such applications and to help other faculty understand the empirical and theoretical base, the most feasible ways to apply it, and the importance of doing both.

**Note:** Please email me (nelson1@indiana.edu) if you need a copy of one of my articles for personal research or teaching and cannot easily obtain it. Links for some copies are at [http://iub.academia.edu/CraigNelson](http://iub.academia.edu/CraigNelson)

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**TITLES ARE GROUPED BY THESE TOPICS** And Are In Reverse Chronological Order Within Topic

1. How We Resist Change: Dysfunctional Illusions Of Rigor
2. Fostering Critical Thinking & Mature Valuing Across The Curriculum
3. Achievement, Retention & Equity (Diversity)
4. Active Learning
5. Teaching Evolution And The Nature Of Science, While Fostering Critical Thinking And Respecting Religion
6. Environmental Education
7. The Scholarship Of Teaching And Learning (Sotl): Programs & Genres
8. Preparing Future Faculty For Teaching
9. Quick Summaries Of Key Ideas

1. **HOW WE RESIST CHANGE: DYFUNCTIONAL ILLUSIONS OF RIGOR**
   [http://cgi.stanford.edu/~dept-ctl/cgi-bin/tomprof/postings.php](http://cgi.stanford.edu/~dept-ctl/cgi-bin/tomprof/postings.php) (Enter 1058 & 1059 into search box at top of page.)


2. **FOSTERING CRITICAL THINKING & MATURE VALUING ACROSS THE CURRICULUM**


3. **ACHIEVEMENT, RETENTION & EQUITY (DIVERSITY)**
   Nelson, C. E. 1996. Student diversity requires different approaches to college teaching, even in math and science. *American Behavioral Scientist* 40:165-175. [Ideas apply across the curriculum.]

Faculty from Science Disciplines in the Undergraduate Education of Science and Mathematics Teachers. National Science Foundation, Publication 93-108.


4. ACTIVE LEARNING


Dr. Nelson cosponsors the Evolution and Nature of Science ENSI Web-site, which provides teacher-tested lessons and other resources for high-school and college teachers. http://www.indiana.edu/~ensiweb/ This site grew out of our NSF funded institutes for high-school biology teachers, institutes which directly trained over 1000 teachers between 1989 and 1998. [ENSIWEB is linked to from many other notable sites, including the NABT, NSTA, PBS Evolution, NCSE, Understanding Science and Understanding Evolution, and NESCent sites]

6. ENVIRONMENTAL EDUCATION


7. THE SCHOLARSHIP OF TEACHING AND LEARNING (SOTL): PROGRAMS & GENRES


[Nelson, C. E. 2003. A Faculty Member’s Overview of SOTL at Indiana University (“some lessons I draw from our experience so far in developing a SOTL program.”) Handout for Campus Colloquium on the Scholarship of Teaching and Learning: Collaborating for Change. Washington D.C.  www.sotl.ilstu.edu/downloads/pdf/sotl@IUB.pdf  ]


8. PREPARING FUTURE FACULTY FOR TEACHING


9. QUICK SUMMARIES OF KEY IDEAS


