Poli284D: Evidence-Based Teaching Workshop Fall 2019 -Draft-

Workshop Facilitator: Maureen Feeley **Meeting times:** Tues., 2:30 – 4:30 pm

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Thursdays., 2:45 – 4:00 pm, and by appt.

This workshop has been developed to support you as graduate teaching assistants (TAs) and as future faculty, who will teach, mentor, and advise students, as well as conduct research. It provides an introduction evidence-based research on university-level teaching and learning, with an emphasis on practical application of theoretical principles. We'll begin each meeting with a discussion of issues, challenges, and successes from the week's teaching experiences, or any pressing concerns for the week to follow, and discuss how we might link these to evidence-based research on teaching and learning. We'll then move to a substantive discussion of designated topics for the week, focusing both on research findings and practical applications. Theoretical readings will be paired with practicum assignments –concrete learning activities that can be introduced into discussion sections or larger classes to promote student learning. The workshop also provides resources and feedback on developing teaching portfolios for the job market. Those who register for the course will have their participation officially listed on their transcript and receive two graduate course credits (S/U). If you're unable to register for the course for credit due to conflicts, etc., please feel free to attend sessions that are of interest and relevance to you.

Workshop requirements for those registering for credit:

- 1. Participation in 7 of 9 seminar meetings.
- 2. Weekly short assignments: most weeks we'll prepare brief classroom exercises that provide practical applications of theoretical principles for that week's session, and that you can use in section.
- 3. Final course project due Tuesday of finals exams week: Prepare a teaching portfolio, or relevant portion of one, depending on your year in the program, and your personal and professional goals. For example, if you're leading discussion sections, you may submit a lesson plan that illustrates principles and theories addressed in the workshop. If you're preparing to teach a course at UCSD (or elsewhere), you may submit a course syllabus. If you're planning to go on the job market soon, you may submit a more developed teaching portfolio, including a teaching statement, syllabi, sample lesson plans, SoTL research on student learning, etc.

Texts:

The following texts are classic references for undergraduate teaching and learning. I will bring copies to our first session to help you decide if you'd like to purchase any of them. None are required for the course, and you're welcome to borrow my copies at any time. (All required readings will be available either electronically via Geisel or posted as PDFs to TritonEd.)

- 1. Ambrose, Susan A., et al. 2010. *How Learning Works: 7 Research-Based Principles for Smart Teaching.* San Francisco, CA: Jossey-Bass.
- 2. Bain, Ken. 2004. What the Best College Teachers Do. Cambridge: Harvard University Press.
- 3. Brown, Peter C., Henry. Roediger III, Mark A. McDaniel. 2014. *Making it Stick: The Science of Successful Learning*. Harvard University Press: Cambridge, MA.
- 4. Curzan, Anne and Lisa Damour. 2011. *First Day to Final Grade: A Graduate Student's Guide to Teaching*, Ann Arbor: University of Michigan Press. <u>Amazon link</u>.
- 5. Davis, Barbara Gross. 2009. *Tools for Teaching*. (2nd ed.) San Francisco: Jossey-Bass. <u>Amazon link</u>. (e-book available via Roger.)
- 6. Deardorff, Michelle, Kerstin Hamann, John Ishiyama, eds. 2009. *Assessment in Political Science*, APSA: State of the Profession Series.
- 7. McKeachie, Wilbert J. and Marilla Svinicki. 2011 <u>McKeachie's Teaching Tips: Strategies, Research, and Theory for College and University Teachers</u>, Wadsworth Press (13th ed.).

- 8. National Academies of Sciences, Engineering, and Medicine. 2018. *How People Learn II: Learners, Contexts, and Cultures.* Washington, DC: The National Academies Press. https://doi.org/10.17226/24783 (free PDF available)
- 9. National Research Council. 2000. *How People Learn: Brain, Mind Experience and School.* National Academy Press, Washington D.C. (e-version also available from Roger)
- 10. Nilson, Linda B. 2016. *Teaching at Its Best: A Research Based Resource for College Instructors*, 4th ed., Jossey-Bass.

Two Peer-Reviewed APSA Political Science Journals to Consult on Pedagogy

- 1. <u>Journal of Political Science Education</u>
- 2. PS: Political Science and Politics

Helpful Websites with Teaching and Learning Resources

- 1. Teaching + Learning Commons at UCSD
- 2. <u>Carl Wieman Science Education Initiative, UBC</u>
- 3. <u>University of Michigan, CRTL</u>
- 4. Derek Bok Center for Teaching and Learning, Harvard
- 5. <u>Center for Teaching and Learning, Stanford</u>
- 6. <u>Carnegie Mellon, Eberly Center for Teaching Excellence</u>
- 7. MIT Teaching and Learning Laboratory
- 8. Berkeley Graduate Student Instructors (GSIs)
- 9. University of North Carolina, Center for Teaching Excellence

Summary of Scheduled Meetings and Topics: (*Topics may be slightly revised after our first meeting, once we have a better sense of who's in the workshop and your specific interests and goals.*) Since this is a 2-credit S/U course, readings will be kept relatively short, 1-2 research articles or chapters from texts each week, designed to lay theoretical foundations for effective pedagogical practices. (Estimate is ~ 4 hrs. for weekly reading and practicum prep, which as mentioned above, should apply directly toward teaching/section prep.)

Week 1: Tues., 1 Oct.

- Introductions and goals
- Preparing to teach and strategies for succeeding: inclusive classrooms

Week 2: Tues., 8 Oct.

- How do we learn? Introduction to theories of human cognition and student learning
- Practical teaching strategies to engage student learning: facilitating discussion

Week 3: Tues., 15 Oct.

- Establishing learning outcomes: aligning assignments and assessments
- Bloom's taxonomy: formative and summative assessments

Week 4: Tues., 22 Oct.

- Fixed vs. growth mindsets: How to provide efficient and effective feedback to promote learning
- Midterm reviews and evaluations: building your teaching portfolio

Week 5: Tues., 29 Oct.

• Teaching writing: writing to learn - (Fieldtrip to the Writing Hub)

Week 6: Tues., 5 Nov.

- Strategies and Styles of Teaching
- Effective Lecturing and Active Learning: Peer Instruction, Simulations, Case Studies

Week 7: Tues., 12 Nov.

• Developing teaching portfolios for the job market, awards, promotion files

Week 8: Tues., 19 Nov.:

• Diversity, Equity, Inclusion (DEI) and SoTL Research

Week 9: Tues., 26 Nov..: Thanksgiving Holiday – no workshop

Week 10: Tues., 3 Dec.: Looking Forward: UG Education and the Discipline (APSA)

Finals Week: Tues., 10 Dec: No class; submit teaching portfolio project

Schedule of Readings and Resources for Workshop Meetings. (As noted above, topics and readings may be slightly revised, depending on workshop participants' personal interests and goals.)

Week 1: Tuesday, 1 Oct

Discussion

- Introductions and Goals
 - Sections:
 - First day of classes
 - Who are your students? (bios?)
 - Goals of sections? (your role)
 - Met with instructor? (expectations? hours? balance?)
 - o You:
 - Goals for workshop
 - Goals for teaching
 - Goals for research
- Looking forward to Week 2: Preparing to teach and strategies for succeeding: inclusive classrooms
 - Asking and answering questions
 - Inclusive classrooms

Readings

None - We'll review online teaching and learning resources and discuss what's most helpful to you

Teaching Resources

Campus Resources (Teaching + Learning Commons)

- https://docs.google.com/document/d/1WZT2AzG6bmY08CHSMFuAeH3MVaLkU9D-fQKqK5DqUgc
- https://docs.google.com/document/d/1BgwzMsGKKT-pBkZnXCgCtXpCI1ifz0DEvXfgwnW1828
- UCSD Principles of Community

Department of Political Science TA Handbook:

https://docs.google.com/document/d/1iw3uY24I1IvjHoPas0IhvCQ2BB1h84W3enElS48qjeQ/edit?usp=sharing

TA Teaching Materials, AY 2019 - 20

https://drive.google.com/drive/folders/1nSzB-z-vp8PGqvP2FCh9kKezCkXkPYFN

Practicum

Planning for week 2 -> establishing Learning Outcomes (LOs)

Week 2: Tuesday, 8 Oct.:

Discussion

- 1. How Do We Learn? Theories of human cognition/student learning
- 2. Practical Teaching Strategies to Engage Student Learning

Readings

How People Learn

- 1. National Research Council, *How People Learn: Brain Mind Experience and School: Expanded Edition.* E-book from Roger: https://www.nap.edu/read/9853/chapter/1
 - Ch. 1: "Learning: From Speculation to Science," pp. 3 27 (25 pgs).
 - Ch. 2: "How Experts Differ from Novices," pp. 31 50 (19 pgs).

Practicum

• Develop a brief outline of how key research insights from Chapter 1 could be translated into a classroom activity either for a discussion section you're currently teaching, or one you would like to teach in the future.

Week 3: Tues., 15 Oct.

Discussion

- Establishing Learning Outcomes; aligning assignments and assessments
- Bloom's Taxonomy, and formative and summative assessments

Readings

- Simon, Beth and Jared Taylor, 2009, "What is the Value of Course-Specific Learning Goals?"
 Journal of College Science Teaching, 52 57. (Example of SoTL research.)
 http://www.cwsei.ubc.ca/SEI research/files/LifeSci/Simon Taylor ValueOfCourseSpecificLG.pdf
- 2. Linda B. Nilson, 2010 (3rdedition), Chapter 2 "Outcomes-Centered Course Design," *Teaching at Its Best: A Research Based Resource for College Instructors*, pp. 17 32. E-book from Roger: https://ebookcentral.proquest.com/lib/ucsd/detail.action?docID=516954

Practicum

- 1. Depending on your personal interests and goals, develop course specific, unit specific, or single-lecture or discussion section learning outcome(s). (I think for most of you it makes sense simply to develop learning outcomes for a single discussion section or a lecture you'd like to teach.)
 - Refer to Table 2.1 to identify verbs that map onto different cognitive levels or processes, and discuss the cognitive process that the learning goal will promote using one of the cognitive frameworks outlined in the chapter -Bloom's (1956) taxonomy, Anderson and Krathwohl's (2000) revision, Fink (2003), and/or Perry (1968) and Baxter-Magolda 1992
 - Refer to Table 2.2 for examples of learning outcomes based on Bloom's and Anderson and Krathwohl's taxonomies to assist you in drafting your learning outcomes. Note: Learning outcomes should be phrased: "By the end of [this course, or this unit, or this lecture, or this discussion section] students should be able to ...
 - Refer to the learning outcomes rubric in Table 2.3 to evaluate/revise your learning goals.
- 2. Design/draft an assignment(s) or in-class activity that will support student learning in achieving this learning outcome. (Our readings over the next several weeks will address the research on how different types of assignment and activities can support different learning goals, but for now, simply reflect on something that you think should work well.)

Week 4: Tues., 22 Oct.

Discussion: What type of feedback best promotes student learning?

- Promoting Student Learning Before and After Exams: Fixed vs. Growth Mindsets
- Soliciting midterm feedback (Quit, Keep, Start)

Readings

Fixed vs. Growth Mindsets; Assessments of Student Learning

- 1. Dweck, Carol, 2015, "The Secret to Raising Smart Kids," *Scientific American*, vol. 23, no. 5, pp. 1 http://www.scientificamerican.com/article/the-secret-to-raising-smart-kids1/
- 2. Ambrose, Bridges, DiPietro 2010, Chapter 5 "What Kinds of Practice and Feedback Enhance Learning?" *How Learning Works*. E-book from Roger: https://ebookcentral.proquest.com/lib/ucsd/detail.action?docID=529947

Practicum

• Design an assignment either for discussion section or for a future course you'd like to teach that incorporates key research findings on student practice and instructor (or peer) feedback.

Week 5: Tues., 29 Oct.

Discussion: Teaching Writing: Writing to Learn (Field trip: T + L Commons: Writing Hub, TBC)

Strategies for Equitable, Effective, and Efficient Feedback on Writing to Promote Learning

Readings

- 1. Barbara Gross Davis, 2009, Chapter 34 "Helping Students Write Better in All Courses," and Chapter 35 "Designing Effective Writing Assignments," *Tools for Teaching*, pp. 305 322. E-book from Roger: https://ebookcentral.proquest.com/lib/ucsd/detail.action?docID=448877
- 2. UNC Chapel Hill, Writing Center: Writing Standards in Political Science: https://writingcenter.unc.edu/tips-and-tools/political-science/
- 3. UCSD Writing Hub: Core Principles and Practices: https://commons.ucsd.edu/files/writing-principles-practices.pdf
- 4. Skim for relevance: 3-pg handout from Harvard's writing program on responding to student writing (TritonEd)
- 5. Ambrose et al., 2010, *How Learning Works*, Appendix C, Exhibit C.3 (from Carnegie Mellon) 3-pg rubric for assessing papers (skim for relevance). E-book from Roger: https://ebookcentral.proguest.com/lib/ucsd/detail.action?docID=529947
- 6. Skim for relevance: Lisa Baglione, "Doing Good and Doing Well: Teaching Research-Paper Writing by Unpacking the Paper," PS, 2008, vol. 41, issue 3, pp. 595 602.

Practicum

- Design a writing assignment either for section, or for a course you'd like to teach.
- If time, develop a rubric for assessing the assignment, or simply critique how the example given in Appendix C (above) may or may not be useful or adaptable for your assignment.

Week 6: Tues., 5 Nov.

Discussion

Strategies and Styles of Teaching: Effective Lecturing and Active Learning/Peer Instruction

Readings

- 1. YouTube: Erik Mazur: Peer Instruction (Serious Science): https://www.youtube.com/watch?v=Z9orbxoRofl (14mins)
- 2. McKeachie's Teaching Tips:
 - Ch. 14: "Active Learning: Group-Based Learning," pp. 190 200
 - Ch. 15: "Experiential Learning: Case-Based, Problem-Based; Reality-Based," pp. 202 211. (TritonEd)
- 3. Gary King and Maya Sen, "How Social Science Research Can Improve Teaching," *PS Political Science & Politics*, vol. 46, no. 3, July 2013, pp. 621 629. https://gking.harvard.edu/files/gking/files/teaching.pdf
- 4. Two summaries/reviews of paper by Scott Freeman et al. in the *Proceedings of the National Academy of Science* (PNAS), May 2014:
 - https://www.wired.com/2014/05/empzeal-active-learning/
 - http://www.pnas.org/content/111/23/8319

Practicum

• Design an active learning exercise that you could use either in section or in a class you'd like to teach one day. (Or report on an active learning exercise you've implemented already.)

Week 7: Tues., 12 Nov.

Discussion

Developing teaching portfolios for the job market – workshop and discussion

Readings

1. Davis, Tools for Teaching:

- Ch. 54, "The Teaching Portfolio," pp. 481 503.
- https://ebookcentral.proquest.com/lib/ucsd/reader.action?docID=448877&query=
- 2. APSA resources. (Posted on TritonEd)
- 3. In addition, Cornell has some excellent resources for developing a teaching philosophy statement: http://gradschool.cornell.edu/career-services/teaching-philosophy-statement If you scroll down, you'll find additional links to Chronicle of Education articles on how to write a teaching statement, in addition to a great link to sample statements in various disciplines (including Pol. Sci.) at Michigan: http://www.crlt.umich.edu/tstrategies/tstpum

Practicum

Bring a draft teaching statement or other teaching portfolio contribution for feedback.

Week 8: Tues., 19 Nov.: Diversity, Equity, and Inclusion (DEI); and SoTL Research Discussion

- What are key concerns relating to diversity, equity and inclusion in our classrooms, and what can be done about them?
- What type of research designs might be most useful in assessing the impact of specific pedagogical interventions in this area, and why?

Readings:

- 1. Walton, et al. "Two Brief Interventions to Mitigate a "Chilly Climate" Transform Women's Experience, Relationships, and Achievement in Engineering," *Journal of Educational Psychology*, 2015, vol. 107, no. 2, 468 485: https://cpb-us-w2.wpmucdn.com/u.osu.edu/dist/2/43662/files/2017/02/468-12v4agv.pdf
- Rowland and Myatt, "Getting Started in the Scholarship of Teaching and Learning: A 'How to' Guide for Science Academics," Wiley OnLine Library, Sept. 2013: https://www.ncbi.nlm.nih.gov/pubmed/24591041

Learning Outcomes:

- 1. Define and discuss an example of SoTL
- 2. Demonstrate understanding of diversity, inclusion and equity concerns in our classrooms
- 3. Provide critiques of a sample research design that assesses impact of pedagogical intervention on "chilly climate"
- 4. Provide draft of class (or course) experiment to assess the impact of a specific pedagogical intervention on student learning (which may or may not be related to diversity, equity and inclusion) (this can carry into week 10)

Although the first research article focuses specifically on addressing "chilly climate" due to gender bias, we'll discuss whether this research may have broader application. What are some strengths and weaknesses of the research design?

Practicum

Draft a preliminary research design to assess the impact of a pedagogical intervention on student learning either for a future discussion section or for a future course you'd like to teach. (The pedagogical intervention may be designed to address diversity, equity, inclusion, but could also address a different learning outcome/objective.)

Week 9: Tues., 26 Nov. (No class meeting: Thanksgiving Holiday)

Week 10: Tues., 3 Dec.: Looking Forward: UG Education and the Discipline Discussion

- Undergraduate Education at R1 Universities
- Teaching and the Discipline: Looking Forward (APSA updates)

Readings

- 1. Boyer Report, "Reinventing Undergraduate Education: A Blueprint for America's Research Universities" https://eric.ed.gov/?id=ED424840
- Wahkle, John C., "Liberal Learning and the Political Science Major: A Report to the Profession," PS: Political Science & Politics, March 1991, 48 – 60.: https://www.cambridge.org/core/journals/ps-political-science-and-politics/article/liberal-learning-and-the-political-science-major-a-report-to-the-profession/334FE64574A44457D387910BE0D13C98

Practicum

Bring draft of relevant portion of teaching portfolio you plan to submit as the workshop project for discussion and feedback. (Final drafts are due Tuesday of finals week, with flexibility, depending on your finals week schedule. See page 1 of syllabus, #3 under "Workshop Requirements" for more details and/or feel free to follow-up with me.)

Further Optional Readings:

Weeks 0 - 2:

- 1. First Day of Class -link from Carl Wieman site: http://cwsei.ubc.ca/resources/index.html
- 2. Motivating Learning: http://cwsei.ubc.ca/resources/index.html
- **3.** Derek A. Webb, "Twelve Easy Steps to Becoming an Effective Teaching Assistance," *PS: Political Science and Politics*, 2005, vol. 38, issue 4, pp. 757 761.
- **4.** <u>Davis, Tools for Teaching</u> (Available via e-reserve):
 - Part I, Ch. 3: "The First Days of Class," pp. 37 47 (11 pgs).
 - Part III, Ch. 9: "Leading a Discussion," pp. 97 105 (9 pgs.)
 - Ch. 10: "Encouraging Student Participation in Discussion," pp. 106 111 (6 pgs.)
 - Ch. 12: "Asking Questions," pp. 118 125.
 - Ch. 13, "Fielding Students' Questions," pp. 127 131. (e-book from Geisel)

Part II: Responding to a Changing Student Body, pp. 57 – 93.

- o Ch 5: "Diversity and Inclusion in the Classroom," pp. 57 68 (12 pgs).
- o Ch. 7: "Reentry and Transfer Students," pp. 85 88 (4 pgs.).
- o Ch. 8: "Teaching Academically Diverse Students," pp. 90 93 (4 pgs.)
- o (Skim for relevance) Ch. 6: "Students with Disabilities," pp. 72 84.
- **5.** <u>Curzan and Damour</u>, *First Day to Final Grade.* (Available via e-reserve)
 - Ch. 1 "Becoming a Teacher," pp. 1 6 (6 pgs).
 - Ch. 2 'The First Day of the Term," pp. 7 29 (23 pgs).
 - Ch. 3. "Weekly Class Prep," pp. 29 40 (11 pgs.)
 - Ch. 4: "Running a Discussion," pp. 41 57;
 - Ch. 6: "Trusty Class Plans,' pp. 76 91.
 - Ch. 11 "The Balance of School and Teaching," pp. 227 231 (5 pgs)
 - Appendix B: Lesson Plan for a Discussion Class, p. 180 181.
- **6.** *McKeachie's Teaching Tips*:
 - Ch. 5: "Facilitating Discussion: Posing Problems, Listening, Questioning," pp. 36 54.

Weeks 3 and 4:

- **1.** Grant, Heidi and Dweck, Carol, 2003, "Clarifying Achievement Goals and Their Impact, *Journal of Personality and Social Psychology*, vol. 85, no. 3, pp. 541 553.
- 2. McKeachie's Teaching Tips: Chapter 9, "Good Designs for Written Feedback," pp. 108 124.
- **3.** 1. Davis, *Tools for Teaching:*
 - (Skim): Ch. 40, "Allaying Students' Anxieties about Tests," pp. 375 389.
 - Ch. 43: "Grading Practices," pp. 409 418.
 - Ch. 36: "Evaluating Students' Written Work," pp. 325 334.
 - Ch. 52: "Early Feedback to Improve Teaching and Learning," pp. 461 471.
 - Ch. 53: "Video Recordings and Classroom Observations," pp. 472 480.
 - Ch. 60: "Student Rating Forms," pp. 534 546.

- 2. Danelle D. Steven and Antonia Levi, *Introduction to Rubrics: An Assessment Tool to Save Grading Time, Convey Effective Feedback and Promote Student Learning*, Sterling, VA: Stylus Pub., 2005.
- 3. McKeachie's *Teaching Tips*:
 - Ch. 10: "The ABCs of Assigning Grades," pp. 125 137.
- 4. Curzan and Damour:
 - Ch. 8 Grading, pp. 133 156.
 - Ch. 9, "Feedback from Students," pp. 157 164.
- 5. My Fight against Grade Inflation: A Response to William Cole," Simeon Dreyfus, *College Teaching*, 41:4, pp. 149 152.

Week 5: Teaching Writing; Designing Effective Writing Assignments

- 1. Davis, *Tools for Teaching*, Ch. 35: "Designing Effective Writing Assignments," pp. 314 322.
- 2. John C. Bean, Engaging Ideas: The Professor's Guide to Integrating Writing, Critical Thinking, and Active Learning in the Classroom, 2nd ed., San Francisco: John Wiley & Sons, Inc., 2011, Chapter 1: "Using Writing to Promote Thinking: A Busy Professor's Guide to the Whole Book," pp. 1 14 (14 pp), Chapter 2: "How Writing is Related to Critical Thinking," pp. 17 38 (22 pp). Skim for relevance: Chapter 6: "Formal Writing Assignments," pp. 89 119 (30 pps).
- 3. Lisa Baglione, "Doing Good and Doing Well: Teaching Research-Paper Writing by Unpacking the Paper," *PS*, 2008, vol. 41, issue 3, pp. 595 602.
- 4. Nancy Sommers, "Across the Drafts," December 2006, pp. 248 256. (Short essay on the value of feedback for developing undergrad writing skills.) 3-pg. handout: "A Brief Guide to Responding to Student Writing," Harvard College Writing Program. (Attached.)
- 5. McKeachie's Teaching Tips
 - Ch. 16: "Using High-Stakes and Low-Stakes Writing to Enhance Learning," pp. 213 233.
- 6. Curzan and Damour:
 - Ch. 6, section on "Paper Workshop," pp. 94 98.

Week 6: Strategies for Effective Teaching and Learning: Active Learning and Peer Instruction

- Davis, Ch. 14 "Preparing to Teach the Large-Enrollment Course," pp. 135 145; Davis, Ch. 15 "Delivering a Lecture," pp. 148 156; Davis, Ch. 16 "Explaining Clearly," pp. 157 160; Davis, Ch. 17 "Personalizing the Large-Enrollment Course," pp. 162 16; Davis, Ch. 18 "Encouraging Student Participation in the Large-Enrollment Course," pp. 168 173.
- 2. <u>UCSD's TA Handbook</u>: Effective Lecturing, pp. 42 52.
- 3. Jennifer Fitzgerald and Vanessa A. Baird, "Taking a Step Back: Teaching Critical Thinking by Distinguishing Appropriate Types of Evidence," *PS: The Teacher*, July 2011, pp. 619 624.
- 4. "Being a Skilled Facilitator of Critical Thinking," from Critical Thinkers, pp. 228 241.
- 5. "Structuring Classes to Promote Critical Thought," (see esp. sub-section: "Five Keys to Creating an Interactive Classroom," from *Teaching Students to Think Critically,* pp. 61 68

Week 10: Last Days of Class:

- 1. Bain, *What the Best College Teachers Do,* Chapter 7 (Assessment and Teaching Evaluations), pp. 150 172; "Epilogue: What Can We Learn From Them?", pp. 173 178.
- 2. Davis, *Tools for Teaching:* Ch. 59: "The Last Days of Class," pp. 529 533.