This paper presents suggested readings to aid instructors in honing their teaching skills. As a point of departure, 20 IDEA Teaching Methods are used. Readings are divided into four categories: communicating content and purpose, involving students, creating enthusiasm, and preparing exams. Helpful material is suggested for specific topics within these categories. Areas covered include stating course objectives, demonstrating the importance of subject matter, motivating students, presenting material in a clear and organized way, helping students develop higher levels of thinking, developing classroom discussion, using alternative teaching strategies, fitting teaching methods to instructional goals and student needs, improving feedback to students, communicating enthusiasm for the subject, stimulating students' intellectual and emotional response to the material, planning the course, improving testing, improving essay, oral and performance exam items, and improving objective exam items. (Contains 35 references.) (JPB)
Readings to Improve Selected Teaching Methods

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While most IDEA Papers have been written for faculty and administrators in higher education independent of using the IDEA System, this paper utilizes the 20 IDEA Teaching Methods items as its point of departure. Since there is considerable similarity in the items used—and the factors covered—in most student rating forms, it is hoped that these suggested readings will assist most colleges and universities, not just those using the IDEA System.

To help those who do not use IDEA, I will briefly discuss the factor analytic research on student rating items. This research has demonstrated that there is very considerable overlap in the items used on most student rating forms. Therefore, readers should be able to generalize from the IDEA items to similar items on their own forms.

Everyone agrees that student rating forms are multidimensional, because there are several different aspects to effective teaching. The multidimensional nature of student ratings has been reflected in a number of factor analytic studies (see Cohen, 1981; Feldman, 1976; and Kulik & McKeachie, 1975 for references). As few as two (Frey, 1978) or three (Feldman, 1976) factors have been suggested. Frey suggested that most student rating items dealt with either “Skill,” e.g., presenting, or “Rapport,” e.g., interacting with students. Feldman called Frey’s Skill factor “Presentation”; Frey’s Rapport factor, “Facilitation”; and added a third factor, “Regulation” related to testing, giving assignments, and the like. Most writers have suggested more factors. Frey’s two factors were a summary of his basic seven factors: Organization/Planning, Presentation Clarity, Student Accomplishment, Class Discussion, Personal Attention, Grading/Exams, and Workload. Marsh (e.g., 1991) identified nine factors: Learning/Value, Enthusiasm, Organization/Clarity, Group Interaction, Individual Rapport, Breadth of Coverage, Exams/Grading, Assignments/Readings, and Workload/Difficulty. In one of his many reviews of the student rating literature, Feldman (1989) suggested that student rating items might logically be separated into as many as 28 different categories. (Readers interested in specific examples of items from these factors or categories should see the original references. Very often locally developed forms have many items covering presentation and exams, and few or no items on other factors.)

The IDEA Report divides the Teaching Methods items (Items 1-20) into four categories: Communicating Content and Purpose, Involving Students, Creating Enthusiasm, and Preparing Exams (other IDEA items cover student learning—Items 21-30, and difficulty and workload—Items 31-35, but will not be discussed in this paper). For those unfamiliar with the IDEA System, its Diagnostic Summary section lists specific Teaching Methods where improvement is more likely to help the students make greater progress on one or more of the course objectives. Then the instructor—taking into consideration the kind of course and the kinds of students—must look for ways of improvement related to that teaching method. Student rating items are the start of the instructor’s journey toward improvement, not the end. Effective student rating items do not provide answers; they provide questions. The question should help the instructor focus on aspects of his or her teaching where change is more likely to lead to greater student learning.

The remaining sections of this paper will suggest readings for each of the 20 IDEA Teaching Methods. For each item, the students are asked to rate how frequently the instructor used the method, e.g., promoted teacher-student discussion. If you do not use the IDEA System, look for items on your form which are similar to the IDEA items, and are related to a teaching method that you are interested in improving.

Readings to Improve Communicating Content and Purpose

Using the factors discussed above as a frame of reference, these IDEA items overlap with Frey’s (1978) Skill factor, with Feldman’s (1976) Organization/Planning factor, and with Marsh’s (1991) Organization/Clarity factor.

16. Clearly stated the objectives of the course.
8. Demonstrated the importance and significance of the subject matter.
18. Related course material to real life situations.

The first two items concern planning the course. Obviously you cannot clearly state the objectives of the course (Item 16) if you have not explicitly determined what your instructional goals are for that course. These in turn will relate to the importance of the subject matter (Item 8). Relating the course to real life (Item 18) is one of the most effective ways to demonstrate the significance of the subject matter.

Regarding clearly stating the objectives of the course, read Angelo & Cross (1993), Ch. 2; Davis (1993), Chs. 1-2; Diamond (1989), entire book; Gronlund (1985), Chs. 1-5; Lowman (1984), Ch. 7; McKeachie (1994), Ch. 2; and Ryan & Martens (1989), entire book; also IDEA Paper No. 18 (Hanna & Cashin, 1987), and Hanna (1993), Chs 2-4.
Regarding demonstrating the importance and significance of the subject matter and relating course material to real life, I cannot suggest any specific readings since this will vary with the academic field and with the level of the course. The one suggestion that I can make is that very often things about the subject matter—which are obvious to us as experts—are not even suspected by our students. It is our responsibility to make explicit the value of the material to our students. With today's vocationally oriented students, one of the most effective ways to do this is to use a variety of examples which relate the material to real life. For example, many students still object to taking writing or speech courses. It never occurs to many business majors or engineering majors—among others—that they will have to write letters and reports, and quite probably make formal presentations. As teachers we must make these things explicit.

The following are readings about motivating students which have some relevance to demonstrating the significance of the subject matter. Read Eble (1988), Ch. 15; Davis (1993), Chs. 21-23; Fuhrmann & Grasha (1983), Chs. 3-5; and Lowman (1984), Ch. 3; McKeachie (1994), Ch. 31; also IDEA Paper No. 1 (Cashin, 1979).

10. Made it clear how each topic fit into the course.
17. Explained course material clearly, and explanations were to the point.
14. Summarized material in a manner which aided retention.

These three items all deal with presenting material in a clear and organized way. This is still often done in lecture or presentations. Since readings relevant to one item often overlap with those relevant to another, I have combined the suggested readings. For Items 10, 17, and 14, read Brown & Atkins (1988), Chs. 2-3; Davis (1993), Chs. 13-14, & 16; Eble (1988), Ch. 6; Erickson & Strommer (1991), Ch. 6; Lowman (1984), Ch. 5; McKeachie (1994), Ch. 5; also IDEA Paper No. 14 (Cashin, 1985) and No. 13 (Osterman, Christensen, & Coffey, 1985).

Readings to Improve Involving Students


2. Found ways to help students answer their own questions.

The thrust of this item—in terms of Bloom’s cognitive taxonomy (Bloom et al., 1956; see also Gronlund, 1985)—is not on simple Knowledge and Comprehension, but on helping students develop higher levels of thinking: Application, Analysis, Synthesis, and Evaluation. The following readings cover questioning techniques in general: Christensen (1991), Ch. 9; Davis (1993), Chs. 10-11; and Hyman (1980), Ch. 5; also IDEA Paper No. 8 (Hyman, 1982).

1. Promoted teacher-student discussion (as opposed to mere responses to questions).
2. Spoke with expressiveness and variety in tone of voice.
3. Made presentations which were dry and dull.
4. Seemed enthusiastic about the subject matter.
5. Changed approaches to meet new situations.
6. Encouraged students to express themselves freely and openly.
13. Encouraged student comments even when they turned out to be incorrect or irrelevant.

These three items are all concerned with developing teacher-student, and student-student interaction. The focus in many classes even though called discussion classes is on content. In such classes the instructor puts a premium on correct answers. Item 13 focuses on the fostering interaction. Used appropriately, students’ mistakes and incorrect answers can lead to deeper and more enduring learning. The following readings cover discussion techniques in general: Davis (1993), Chs. 8-9; Eble (1988), Ch. 7; Erickson & Strommer (1991), Ch. 7; Fuhrmann & Grasha (1983), Ch. 6; Hyman (1980), entire book; Lowman (1984), Ch. 6; McKeachie (1994), Ch. 4 & 15; also IDEA Papers No. 8 (Hyman, 1982), and No. 15 (Cashin & McKnight, 1986).

Readings to Improve Creating Enthusiasm

These IDEA items overlap with Feldman’s (1976) Presentation factor, and with Marsh’s (1991) Enthusiasm factor.

4. Seemed enthusiastic about the subject matter.
7. Spoke with expressiveness and variety in tone of voice.
9. Made presentations which were dry and dull.

Item 4 is the highest rated item of the 20 IDEA Teaching Methods. This suggests that most of us, as instructors, do communicate to our students our liking for our academic fields. One major way this is accomplished is the way we
speak when teaching (Items 7 and 9). (Note that item 9—
and items 6, 12, and 19 dealing with exams—are negative
items where low ratings are desirable.) Almost every writing
on improving lectures mentions the need for effective public
speaking skills, but typically they offer few suggestions.
Read IDEA Paper No. 24 (Goulden, 1991); and Lowman
(1984), Ch. 4; also Davis (1993), Ch. 13.

15. Stimulated students to intellectual effort beyond that
required by most courses.
20. Introduce stimulating ideas about the subject.

These two items are concerned with the intellectual, and
the affective or emotional, stimulation of the students.
As the result of taking a course, the student should have not
only a better understanding of the subject matter, but the
student should value and appreciate—if not like—the field.
These aspects of teaching are not so much craft, nor even
science, but of the art of teaching. As such they are not
1-3 where he talks about both the cognitive and affective
aspects of teaching, and read Eble (1988), Chs. 1-3.

The other readings I would suggest are those readings
cited above related to stating the objectives of the course.
If we are clear about what knowledge, skills, and attitudes
we want our students to learn from a course, and have a
valid reason why they should learn them, we will have the
key to making our courses intellectually stimulating and
challenging.

Readings to Improve Preparing Exams
These IDEA items overlap with Feldman’s (1976) Regulation

6. Gave examinations which stressed unnecessary
memorization.
12. Gave examination questions which were unclear.
19. Gave examination questions which were unreasonably
detailed (picky).

Unclear exam questions (Item 12) can apply to any kind of
test: essay, oral, and performance, as well as to so called
“objective” exams. Stressing unnecessary memorization
(Item 6) or unreasonable detail (Item 19) are more likely to
be students’ criticisms of “objective” questions.

The most fundamental way to better prepare exams is to
have a well planned course (see readings for Item 16, above)
and then develop a test plan to insure that you

test what you taught. Read Jacobs & Chase (1992), Ch. 1;
Ory & Ryan (1993), Chs. 1-2; also Hanna (1993), Chs. 1-4.
Only after developing a test plan, should you work to
improve specific item types.

To Improve essay, oral, and performance items, read Davis
(1993), Ch. 31; Jacobs & Chase (1992), Chs. 6-7; McKeachie
(1994), Ch. 6; Ory & Ryan (1993), Ch. 4; also IDEA Paper No.
17 (Cashin, 1987), and Hanna (1993), Chs. 7-8.

To Improve “objective” items, read Davis (1993), Ch. 30;
Jacobs & Chase (1992), Chs. 4-5; McKeachie (1994), Ch. 6;
Ory & Ryan (1993), Ch. 3; also IDEA Paper No. 16 (Clegg &
Cashin, 1986), and Hanna (1993), Chs. 5-6.

Conclusion
It is my hope that the readings cited in this paper will help
you improve your teaching. Most of the books have chapters
on a wide variety of other aspects of college teaching which I
also recommend to you. If I included a reading, it should be
obvious that I consider it of value. However, if I have not
cited a particular chapter, or omitted a book, readers should
infer nothing about its value. There are some books which
I have omitted because they overlap so much with
those I have cited, or because they were less recent. Most of
these are likely to be referenced in the books I have cited.
It is also likely that there are some excellent books of which I
am ignorant.

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