## **CWSEI Teaching Practices Inventory**

For use in natural and social sciences

To create the inventory we devised a list of the various types of teaching practices that are commonly mentioned in the literature. We recognize that these practices are not applicable to every course, and any particular course would likely use only a subset of these practices.

We have added places that you can make additions and comments and we welcome your feedback.

It should take only about 10 minutes to fill out this inventory.

Please fill out the inventory for the current or just completed Term, Lecture sections only.

	Course number:  Section #(s) or Instructor name:  Total number of students in your class or section (approximate):
	urse information provided to students via hard copy or course webpage. (check all that rred in your course)
	<ul> <li>□ List of topics to be covered</li> <li>□ List of topic-specific competencies (skills, expertise,) students should achieve (what students should be able to do)</li> <li>□ List of competencies that are not topic related (critical thinking, problem solving,)</li> <li>□ Affective goals – changing students' attitudes and beliefs (interest, motivation, relevance, beliefs about their competencies, how to master the material)</li> <li>□ Other (please specify)</li> </ul>
	If you selected other, please specify
II. Sı	upporting materials provided to students (check all that occurred in your course)
	□ Student wikis or discussion boards with little or no contribution from you. □ Student wikis or discussion boards with significant contribution from you or TA. □ Solutions to homework assignments □ Worked examples (text, pencast, or other format) □ Practice or previous year's exams □ Animations, video clips, or simulations related to course material □ Lecture notes or course PowerPoint presentations (partial/skeletal or complete) □ Other instructor selected notes or supporting materials, pencasts, etc. □ Articles from related academic literature □ Examples of exemplary papers or projects □ Grading rubrics for papers or large projects □ Other (please specify)
	If you selected other, please specify

## III. In-class features and activities

**O** 11-25%

O more than 25%

## A. Various

Give approximate average number:	
Average number of times per class: pause to ask for questions	
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Average number of times per class: have small group discussions or problem solving	
Average number of times per class: show demonstrations, simulations, or video clips	
Average number of times per class: show demonstrations, simulations, or video where students first record predictions (write down, etc.) and then afterwards explicitly compare observations with predictions	
Average number of discussions <u>per term</u> on why material useful and/or interesting from students' perspective	
Comments on above (if any):	
Check all that occurred in your course:	
it shortly before class or at beginning of	ing class session <u>and</u> complete assignments or quizzes on of class "one-minute paper" or similar (students briefly answering their learning, etc.)
Fraction of typical class period you spend led mathematical results, presenting a problem	cturing/talking to whole class (presenting content, deriving solution,)
O 0-20%	
○ 20-40% ○ 40-60%	
O 60-80%	
O 80-100%	
	pics, approximately what fraction was spent on the <i>process</i> reloped, including the experimental methods and results
O 0-10%	

## **B. Individual Student Responses (ISR)**

	If a student response method is used to collect responses from all students IN REAL TIME IN CLASS, what method is used? (check all that occurred in your course)   raising hands
	☐ raising colored cards ☐ electronic (e.g. "clickers") with student identifier
	<ul><li>electronic anonymous</li><li>written student responses that are collected and reviewed in real time</li><li>Other (please specify)</li></ul>
	If you selected other, please specify
	Number of ISR questions posed followed by student-student discussion per class
	Number of times ISR used as quiz (counts for marks and no student discussion) per class
IV. A	ssignments (check all that occurred in your course)
	<ul> <li>☐ Homework/problem sets assigned or suggested but did not contribute to course grade</li> <li>☐ Homework/problem sets assigned and contributed to course grade at intervals of 2 weeks or less</li> <li>☐ Paper or project (an assignment taking longer than two weeks and involving some degree of student control in choice of topic or design)</li> <li>☐ Encouragement and facilitation for students to work collaboratively on their assignments</li> <li>☐ Explicit group assignments</li> <li>☐ Other (please specify)</li> </ul>
	If you selected other, please specify
V. Fe	edback and testing; including grading policies (check all that occurred in your course)
	A. Feedback from students to instructor during the term
	<ul> <li>Midterm course evaluation</li> <li>Repeated online or paper feedback or via some other collection means such as clickers</li> <li>Other (please specify)</li> </ul>
	If you selected other, please specify
	B. Feedback to students (check all that occurred in your course)
	<ul> <li>□ Assignments with feedback from instructor, teaching assistant, or peer before grading or with opportunity to redo work to improve grade</li> <li>□ Students see graded assignments</li> <li>□ Students see assignment answer key and/or grading rubric</li> <li>□ Students see graded midterm exam(s)/quizzes</li> <li>□ Students see midterm exam(s)/quizzes answer key(s)</li> <li>□ Students explicitly encouraged to meet individually with you</li> <li>□ Other (please specify)</li> </ul>
	If you selected other, please specify

C. Testing and grading	
Number of tests during term that reflect course expectations (e.g. midterm exams, but not final exams)	
Approximate fraction of test scores from questions that required students to explain reasoning	%
Approximate breakdown of course grade (%	in each of the following categories)
Final exam	%
Midterm/other exam(s)	%
Homework assignments	%
Paper(s) or project(s)	%
In-class activities	%
In-class quizzes	%
Online quizzes	%
Participation	%
Lab component	%
Other	%
If you selected other, please specify:	·
<ul> <li>□ Use of a consistent measure of learning the compare learning</li> <li>□ Use of pre-post survey of student interest</li> <li>□ Opportunities for students' self-evaluation</li> <li>□ Students provided with opportunities to have topics for course, paper, or project, choice</li> </ul>	st (e.g. concept inventory) to measure learning hat is repeated in multiple offerings of the course to and/or perceptions about the subject of learning have some control over their learning, such as choice of
VII. Training and guidance of Teaching Assist	ants (check all that occurred in your course)
<ul> <li>□ No TAs for course</li> <li>□ TAs must satisfy English language skill</li> <li>□ TAs receive ½ day or more of training</li> <li>□ There are Instructor-TA meetings ever and difficulties, and the teaching of up</li> <li>□ TAs are undergraduates</li> <li>□ TAs are graduate students</li> <li>□ Other (please specify)</li> <li>If you selected other, please specify</li> </ul>	in teaching ry two weeks or more frequently where student learning ocoming material are discussed.

VIII. Collaboration or sharing in teaching	
<ul> <li>☐ Used or adapted materials provided by colleague(s)</li> <li>☐ Used "Departmental" course materials that all instructors of this course are expected to use</li> </ul>	
Discussed how to teach the course with colleague(s)	
O 1 Never	
O 2	
O 3	
O 4	
→ 5 Very Frequently	
Read literature about teaching and learning relevant to this course	
O 1 Never	
O 2	
O 3	
O 4	
O 5 Very Frequently	
Sat in on colleague's class (any class) to get/share ideas for teaching	
O 1 Never	
O 2	
O 3	
O 4	
O 5 Very Frequently	
IX. General (open-ended comments)	
Please write any other comments here. If this inventory has not captured an important aspect your teaching of this course, or you feel you need to explain any of your above answers pleased describe it here.	
Approximately how long did it take you to fill out this inventory?	

We thank you for taking the time to fill out this inventory.