Peer assessment and team work as a professional skill in a second year economics unit

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This paper reports the results of the introduction of a peer review component of assessment in the context of building teamwork as a professional skill. Amongst the motivations for the change of tutorial structure and the change to the assessment procedures was a desire to make the tutorials more student oriented, and to make them more interesting. A related motivation was to improve the student attendance at the tutorial session, and overall to improve the students' knowledge of the subject matter covered in the second year macroeconomics unit.

Introduction

In today's competitive world, quality aspects of the education of the student have assumed increasing importance (Hogg et.al 1999). Improvements to teaching methods and the need to promote professional skills, are amongst the processes likely to improve student quality. At the same time, seeing the student becoming more interested and eager in learning and developing skills, and in essence becoming more truly educated can be an extremely rewarding experience for the instructor (Heppner & Johnston 1994).

Instructors wishing to improve the techniques of learning and evaluation, need to keep in mind important professional skills such as teamwork that they need to develop in their students. These skills are required in order to effectively function as future employees either in a business or in a government work environment. Collaborative peer group learning is one such method that develops team skills. Several studies have shown that student learning and satisfaction are significantly improved with peer assessment (Kwok et.al 2001, Weiler 2001, Ueltschy 2001).

Ueltschy (2001) in his study conducted at an AACSB-accredited midwestern university with 177 business students, both graduate and undergraduate, found collaborative learning improves teaching and learning skills. The findings of his study show that use of peer interactive technology in the classroom improves team-building skills, student participation, understanding and recollecting of important concepts and the satisfaction of doing the course well. In short, it improves the learning process itself.

According to Brown and Pendlebury (1992), peer assessment involves both giving and receiving assessment. As we are aware, in the work environment, staff constantly examine others' communication in meetings, written documents and dialogue. Businesses need people who can effectively use collaboration tools, team dynamics, and interpersonal communication. Companies are encouraged to realign incentives to reward those who participate in the growth of collaborative learning techniques (Weiler 2001).
This paper is organised as follows. Section 2 briefly describes the process of team learning and peer assessment. Section 3 examines the method used to evaluate the peer review process, while Section 4 addresses the data collection and analysis. Section 5 looks at the effects of the peer assessment on student outcomes, while concluding remarks are provided in section 6.

Process of team learning and assessment

During the second semester, 2001, a team learning technique was used for the first time by the second year Macro Economics tutorial class in the School of Economics and Finance, Curtin University of Technology. Tutorial classes averaged around eighteen individuals; during the first tutorial class, students were assigned to teams of three or four. A concurrent aim was to use those teams for a peer review process. Prior experience suggested that relatively small groups work best. Rather than allow students to form their own groups, in which case friends tend to stick together and those with similar ethnic backgrounds similarly tend to stick together, the groups were formed by the tutor. This was seen particularly as one way of ensuring students from diverse national backgrounds experienced practice in dealing with those whose nationality was different from their own, following Wilson and Shullery (2000), whose findings suggested positive experiences in classes where groups are formed by the tutor.

The team-learning model was designed to provide a flexible method of helping students to achieve the following objectives:

- Building group cohesiveness
- Promoting learning of essential concepts
- Ensuring individual accountability
- Teaching students the positive value of groups

In the unit in question, students were encouraged to apply economic modelling to real life situations. They attended a two-hour lecture each week, and a one-hour tutorial. The tutorial work consisted of 4 or 5 problems and applications, from a topic covered in the previous lecture. Traditionally, the tutorial consisted of the whole class being asked to share their answers to the sequence of questions, or alternatively, one student per week being given the responsibility to present their set of answers. More often than not, the first of these techniques resulted in sporadic answers from the few who had bothered to do any prior preparation for the tutorial, or a domination of the responses by the brighter and more conscientious students. If the second technique was adopted, again, more often than not, the only student to prepare for the tutorial was the one whose responsibility was to present for that week. In both cases, the learning process was generally dysfunctional from both the student’s and the tutor’s point of view. The process generally involved little input from most of the students, the tutor generally ended up supplying the correct answers to the tutorial question, and often the tutorial ended up being another lecture. Apart from the predictable apathy of the students in response to these methods, and the sharp drop-off in tutorial attendance, the tutor generally ended up exhausted and frustrated by feeling obliged to do all of the work. Hence, while the general aim of the tutorial sessions was to learn important macro economic concepts, build group cohesiveness and individual accountability (Hoger, 1998 and Kadel and Keehner, 1995), the reality was often far removed from this goal.
The introduction of the team-based process, coupled with the introduction of a substantial percentage of the final assessment devoted to peer assessment of the individual’s contribution to the team (in terms of participation in the team and in prior preparation for the tutorial session), was seen as an attempt to improve attendance, to shift the focus from the tutor as instructor to the tutor as a learning resource, and to encourage a more student centred learning process. Students were to be able to hone their teamwork skills by discussing the work done by their peers and learn from each other.

In the first tutorial, students were briefed about the importance of team learning and were given an explanation of how the peer assessment would be carried out. Peer assessment sheets were provided to monitor the progress of others in the group (Appendix A). Two different methods were used by the two tutors responsible for the tutorials. One tutor assigned at least 30 minutes for group discussion of the tutorial questions. The tutor approached each group and asked a specific member if he or she would lead the group. The team leader was rotated every week. At the end of 30 minutes, the leader of the group would explain a particular tutorial solution to the entire class. This was done after receiving the group’s input. The tutor visited each group during class to answer questions and help students to work with each other effectively.

The second tutor simply worked with each team in turn, asking for answers to the set of questions, and encouraging each member of the group to contribute. The available tutorial time then, was divided between the four or five groups, with no overall summary to the whole group. Each tutor, however, made use of the same scoring sheet, as set out in Appendix A. Here, for each tutorial, the student who had prepared for class and participated well was assigned 3 marks, above average preparation and participation was assigned 2 marks and average level 1 mark, while those who were absent are assigned 0 mark. The zero assessment for non-attendance was used to reinforce the notion that students need to be present to contribute to the group. In the unit under review, the peer review process comprised 15% of a student’s course grade, which, while may be thought to be somewhat on the high side, has as a comparison, other studies which have allotted as much as 20%.

**Method**

At the end of the fifteen-week semester, a questionnaire was administered to the students to evaluate their experience of the peer review process (Appendix B). The questionnaire comprised of a combination of fixed alternative questions and open-ended questions. Open-ended questions tend to be more personal and involving. The students are more able to explain, elaborate, and refine the meaning of their comments; and they are able to get to the heart of the matter more readily (Heppner, and Johnston 1994). Questions 3, 5, 9 and 10 were of this open-ended type and dealt with reasons for the liking or disliking the peer assessment, comments on fair or unfair assessment, how students actually evaluated their peers, and lastly a question asking for further comments.

Fixed alternative questions, on the other hand, are easier for the respondent to answer and they enable comparability of answers, facilitate coding, tabulating and interpreting the data. Moreover, the use of structured questions helps to reduce any biases that could occur due to the influence of the question designer. Questions 1, 2, 4, 6, 7 and 8 were structured questions. The sample size of 84 represented about 77% of the students who remained in the unit up until the week the questionnaire was administered.
Data and Analysis

With the economics unit only finishing in late November, 2001, and the submission date for this paper following so closely afterwards, the following should be viewed as a preliminary analysis at a general level. No attempt has been made to see whether the questionnaire responses varied systematically across sex, country of residence or any other possible grouping.

Students general judgment on peer assessment
Question 1 asked the student what they thought of peer assessment in general. A five-point interval scale where 1 represented ‘strongly support’ and 5 represented ‘strongly oppose’ was employed to measure the extent to which they approved/disapproved of peer assessment. Table 1 shows the responses to this question. With around 62% in either the supporting or strongly supporting category, clearly there is substantial student support in general for the use of peer assessment as a component of total assessment.

Table 1: General Judgment on Peer Assessment

<table>
<thead>
<tr>
<th></th>
<th>Number*</th>
<th>Percent (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support peer assessment</td>
<td>18</td>
<td>21.4</td>
</tr>
<tr>
<td>Support peer assessment</td>
<td>33</td>
<td>39.3</td>
</tr>
<tr>
<td>Neutral</td>
<td>18</td>
<td>21.4</td>
</tr>
<tr>
<td>Oppose peer assessment</td>
<td>11</td>
<td>13.1</td>
</tr>
<tr>
<td>Strongly oppose peer assessment</td>
<td>4</td>
<td>4.8</td>
</tr>
<tr>
<td>Total</td>
<td>84</td>
<td>100.0</td>
</tr>
</tbody>
</table>

*Number of responses

Students judgment on peer assessment in the unit under review

Question 2 was a similar question but referred specifically to the unit under review. The distribution of responses varied little from that in Table 1, suggesting that the students saw no peculiarities in the actual process administered in the unit under review.

Reasons for liking the peer review process

Table 2 summarises the reasons students gave for liking the peer review process. For ease of interpretation, the many varied responses were recoded into the four categories shown.
Table 2: Reasons for Liking PRP**

<table>
<thead>
<tr>
<th>Reason</th>
<th>Percent (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improves communication, participation and group skills</td>
<td>60.4</td>
</tr>
<tr>
<td>Improves preparation</td>
<td>3.8</td>
</tr>
<tr>
<td>Rewards work, easy marks</td>
<td>26.4</td>
</tr>
<tr>
<td>Other</td>
<td>9.4</td>
</tr>
<tr>
<td>Total</td>
<td>100.0</td>
</tr>
</tbody>
</table>

** PRP refers to Peer Review Process

The reason that the peer review process encouraged them to improve their communication skills, and skills in work participatively in a team environment, was nominated by just over 60% as their reason for liking the process. A small percentage responded that their main reason for liking the process was that it specifically improved their level of preparation for the tutorials. Roughly one quarter liked the process because it provided a reward for those who did the work; in that category concerned with rewards, a couple of students offered the comment that they liked the process because it supplied some easy marks. Clearly students perceived the same set of advantages in this method of assessment and the concurrent team approach, as that intended by the instructors who introduced the innovation.

Students were also asked what they did not like about the process. Of the 84 students who responded to the survey, 34 or 40.5% supplied an answer to this question. Amongst the most supported reasons given for disliking the process was its perceived subjective nature, and that the process had the potential to alienate friends. On the question of whether peer assessment is highly subjective, it could be argued that it is, in fact, more reliable than a single tutor’s assessment of teamwork, since it involves more than one person examining the work done. These repeated measures may make peer assessment more reliable than single or double marking by tutors. Nevertheless, built into the process under review was a provision that the tutor monitor the assessment, and if the tutor suspected that there was cartel at work, then make appropriate adjustments. The use of the spreadsheet (Appendix A) can help students to evaluate their peers performance with minimum discrepancy and more accurately (73.5% of students who responded said they made use the spreadsheet, 26.5% said they did not). As it turned out, very few adjustment of the peer assessments by the tutors were judged to be necessary.

**Perception of the fairness of the peer review process**

In response to this question, approximately 92% of the students responding to the survey believed they had been treated fairly by their fellow team-members. Of the few who perceived they had been treated unfairly in the process, the main complaint appeared to be that the student felt that those in his or her team who had had frequently been absent, would not have been in a proper position to judge their overall level of participation in the team.
Was the 15% the appropriate allocation?
About 65% of the students felt that 15% was the right amount for the peer assessment, roughly 33% felt it was too much, while only 2.4% felt it was too little. From the unit designer’s point of view, this is an important consideration. Too high an allocation of marks, and the integrity of the assessment procedure is called into question. Too low a percentage, and there is little incentive effect for the student to actively participate.

Did the peer assessment process encourage the student to......?
(i) attend the tutorials more regularly (82% said yes, about 11% said no, with around 7% unable to decide);
(ii) prepare more thoroughly for the tutorials (80.5% said yes, 13.4% said no, with 6.1% unable to decide);
(iii) discuss the answers more with your colleagues (82.7% said yes, 13.6% said no, 3.7% could not decide);
(iv) help develop your teamwork skills (73.5% said yes, 22% said no, with 6.1 % unable to decide).

Generally, then, students perceived the process as providing an incentive to attend the tutorials, to prepare more thoroughly, and to interact with members of their team.

Additional comments on the process
Approximately 50% of the respondents to the survey supplied an additional comment. These, however, were many and varied; amongst those with sufficient responses to place in the same category, were a general response that the process was a success and should be continued, that assigning marks to peers is difficult, that the process is interesting, interactive and innovative. On the negative side, several comments were along the lines that it’s the tutor’s job to assess student performance and not that of other students, that the process was a waste of time, and that the job of the tutor is to teach, rather than be a student ‘resource’.

The effect of the peer assessment on student outcomes
During week ten of the semester under consideration, a general review of student opinion of the unit was undertaken, and since this was also undertaken in the corresponding semester a year earlier in 2000, and also since the tutors and unit syllabus remained basically unchanged across those two semesters, it is possible to make some tentative comparisons of the overall student outcomes under two different regimes. There was a difference in the lecturing arrangements across the two semesters, however, with half the lectures being taken by one lecturer and the other half by an alternative lecturer in 2000, but with only the one lecturer in 2001. In the semester 2, 2000, assessment scheme, there was no assessment associated with the tutorials; the 15% attached to peer assessment in 2001 was dispersed amongst a higher essay mark (20% instead of 15%) and a higher percentage for the final examination (60% instead of 50%).

A student assessment tool called the Unit Experience Questionnaire, developed by the Curtin Business School, and based closely on the SEEQ instrument, was administered to the students in October, 2001. In that questionnaire, there is a good teaching scale, a clear goals and standards scale, an appropriate workload scale, an appropriate assessment scale and an overall satisfaction scale. The elements which make up theses scales are supplied in Appendix C. Figure 1 below summarises these responses for the two semesters, semester 2, 2000 and semester 2, 2001.
Figure 1 Comparison of Unit Experience Questionnaire Results Semester 2, 2000 and Semester 2, 2001

2001 UEQ = results of Unit Experience Questionnaire for 2001 Curtin students in the unit Economics (Macro)  
N = 59

2000 UEQ = results of Unit Experience Questionnaire for 2000 Curtin students in the unit Economics (Macro)  
N = 67

2000 CEQ = results of Course Experience Questionnaire for 1999 Curtin graduates from the School of  
Economics & Finance. N = 82

Note: any comparisons between UEQ and Curtin CEQ data to be made with care given the differences in  
questionnaire focus, level of students, year group of students, nature of data (unit vs course), and low response  
rate figures of the CEQ

The good teaching scale may have been affected by the differences in lecturing arrangements  
across the two semesters, but apart from that difference, there is a high degree of similarity  
across the other scales (possibly with the exception of the clear goals and standards scale,  
which is difficult to interpret). The appropriate workload scale, the appropriate assessment  
scale and the overall satisfaction scale, where it might be expected to pick up some  
differences across the two semesters, all are practically identical. Presumably, the introduction  
of the substantial assessment for peer review, and the substantial changes to the operation of  
the tutorials, were not perceived by students as changing their overall evaluation of how the  
unit ran.

There is, however, one further piece of evidence which may throw a different light on these  
conclusions. Table 3 below, shows the distribution of final marks in the unit for the two  
semesters. The standout feature of the table is the significantly higher percentage of students  
scoring higher marks. For example, while 5% of students scored in the 80s or 90s in Semester  
2, 2000, in Semester 2, 2001, this percentage had risen to 16.6%. It is possible that this  
reflects the influence of the team skills and peer assessment, and may be a reflection of the  
positive responses students gave to the increased motivation to attend tutorials, to prepare
more thoroughly, and in general to assume a more learning-centred attitude than has been the case in the past. Alternatively, of course, this may simply be a reflection of a higher achieving cohort of students. While the data is available for other similar economics and finance units, time does not permit a more thorough analysis at this stage.

**Table 3: Distribution of Final Marks for Unit**

<table>
<thead>
<tr>
<th>Marks Range</th>
<th>% of Students Semester 2, 2000</th>
<th>% of Students Semester 2, 2001</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-99</td>
<td>0.0</td>
<td>1.2</td>
</tr>
<tr>
<td>80-89</td>
<td>5.0</td>
<td>14.4</td>
</tr>
<tr>
<td>70-79</td>
<td>24.7</td>
<td>25.9</td>
</tr>
<tr>
<td>60-69</td>
<td>32.1</td>
<td>25.3</td>
</tr>
<tr>
<td>50-59</td>
<td>22.2</td>
<td>20.5</td>
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<tr>
<td>49 or below</td>
<td>16.0</td>
<td>12.7</td>
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<tr>
<td>100.0</td>
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</table>

**Conclusion**

This paper has reported an evaluation of changing the assessment system in a second year economics unit, to incorporate a substantial percentage of the assessment related to peer review, with the latter also associated with a change from a tutor-centred tutorial regime, to a team-oriented and more student-centred learning environment. Although far from conclusive, the evidence presented is encouraging for the change. Students appear to have adopted more appropriate learning strategies, the tutors are definitely happier with a substantial reduction in the pressure generally associated with tutorials stemming from a system which discouraged student participation, and indirectly encouraged tutors to do most of the work.

**Bibliography**


## Appendix A

### Macro Economics 202 Tutorial: Team Participation Grading Sheet

<table>
<thead>
<tr>
<th>Student No</th>
<th>Name</th>
<th>wk1</th>
<th>wk2</th>
<th>wk3</th>
<th>wk4</th>
<th>wk5</th>
<th>wk6</th>
<th>wk7</th>
<th>wk8</th>
<th>wk9</th>
<th>wk10</th>
<th>wk12</th>
<th>TOTAL</th>
<th>Group Total</th>
<th>Tutor's mark</th>
<th>Grand Total (15%)</th>
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<tbody>
<tr>
<td></td>
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</tbody>
</table>

Note: Team participation grades: 0 refers to absent for class; 1 means good participation; 2 is very good and 3 is excellent. You will grade your team members every week until wk12 and total it at the end of the semester. The other columns (Group total, Tutor's mark and Grand total) will be filled by the tutor.
Appendix B

CURTIN UNIVERSITY OF TECHNOLOGY
SCHOOL OF ECONOMICS AND FINANCE
ECONOMICS (MACRO) 202
SECOND SEMESTER 2001

ASSESSMENT OF PEER REVIEW PROCESS

This is the first semester that the peer assessment component has been included in this unit, and we would value your feedback for future semesters. Following some general questions, there is an open-ended section where you can give your own suggestions. Where appropriate, circle your answer, or fill in the space.

1. What is your judgement in general, of peer assessment?

   I strongly support peer assessment 1
   I support peer assessment 2
   I am neutral 3
   I oppose peer assessment 4
   I strongly oppose peer assessment 5

2. In relation to the peer assessment in this unit

   I strongly approve 1 Go to Q3a
   I approve 2
   I am neutral 3 Go to Q4
   I disapprove 4 Go to Q3b
   I strongly disapprove 5

3. a What did you like about the peer assessment?

   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________

   Col. 3-4

b What did you dislike about the peer assessment?

   ____________________________________________________________
   ____________________________________________________________

   Col. 5-6
4. Do you think you received a fair assessment?
   Yes, my peer assessment was basically fair [1] Go to Q5a
   No, I do not think I was given a fair peer assessment [2] Go to Q5b Col. 7

5. a What elements of the peer assessment do you think led to your answer that you were given "a fair" assessment?

5. b What elements of the peer assessment do you think led to your answer that you were given an unfair assessment?

6. Do you think the 15% allocated to peer assessment was
   ▪ about the right amount [1]
   ▪ too much [2]
   ▪ too little? [3]

7. Do you think the peer assessment encouraged you to
   (a) attend the tutorials more regularly? Yes [1] Col. 12
   No [2]
   Don't know [3]
   (b) prepare more thoroughly for the tutorials? Yes [1] Col. 13
   No [2]
   Don't know [3]
   (c) discuss your answers more with your colleagues? Yes [1] Col. 14
   No [2]
   Don't know [3]
   (d) help develop your teamwork skills? Yes [1] Col. 15
   No [2]
   Don't Know [3]

8. In making your peer assessment, did you make use of the spreadsheet where you were to make an assessment each week (i.e. 0 for absent, 1 for good participation, and so on)?
   Yes, I found this sheet useful [1] Col. 16
   No, I did not use this sheet [2]
9. How did you arrive at your peer assessment of those in your group?


10. Please make any further observations/suggestions in relation to your experience with peer assessment in this unit, this semester:


Q11. Background details:
(a) What major or double major are you studying? BCom ( )

(b) Are you full-time or part-time
(circle answer) F/T P/T

(c) Are you male or female
(circle answer) Male Fem

(d) What was your age last birthday?

(e) Are you a HECS paying student? (circle answer) Yes No

(f) What country do you normally live in

Singapore
Malaysia
Hongkong
Indonesia
Other (please indicate):

(g) Which tutorial were you in?
Day:
Time:


Thank you for your feedback. A report will be produced – you can see me for a copy when it is available (February, 2002).

Associate Professor Geoff Crockett
## Appendix C

### Unit Experience Scales

#### Good Teaching

<table>
<thead>
<tr>
<th>Score</th>
<th>Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>The staff member motivated me to do my best work</td>
</tr>
<tr>
<td>7</td>
<td>The staff member put a lot of time into commenting on my work</td>
</tr>
<tr>
<td>15</td>
<td>The staff member made a real effort to understand difficulties I might be having with my work</td>
</tr>
<tr>
<td>16</td>
<td>The assessment methods employed in this unit required an in-depth understanding of the unit content</td>
</tr>
<tr>
<td>17</td>
<td>The staff member normally gave me feedback on how I was going</td>
</tr>
<tr>
<td>18</td>
<td>The staff member was extremely good at explaining things</td>
</tr>
<tr>
<td>20</td>
<td>The staff member worked hard to make this unit interesting</td>
</tr>
</tbody>
</table>

**Good Teaching Scale Average**

#### Clear Goals and Standards

<table>
<thead>
<tr>
<th>Score</th>
<th>Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>It was always easy to know the standard of work expected</td>
</tr>
<tr>
<td>6</td>
<td>I usually had a clear idea of where I was going and what was expected of me in this unit</td>
</tr>
<tr>
<td>13</td>
<td>It was not often hard to discover what was expected of me in this unit</td>
</tr>
<tr>
<td>24</td>
<td>The staff member made it clear right from the start what was expected of students</td>
</tr>
</tbody>
</table>

**Clear Goals and Standards Scale Average**

#### Appropriate Workload

<table>
<thead>
<tr>
<th>Score</th>
<th>Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>The workload was not too heavy</td>
</tr>
<tr>
<td>14</td>
<td>I was generally given enough time to understand the things I had to learn</td>
</tr>
<tr>
<td>21</td>
<td>There was not a lot of pressure on me as a student in this unit</td>
</tr>
<tr>
<td>23</td>
<td>The volume of work in this unit meant was such that it could all be thoroughly comprehended</td>
</tr>
</tbody>
</table>

**Appropriate Workload Scale Average**

#### Appropriate Assessment

<table>
<thead>
<tr>
<th>Score</th>
<th>Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>To do well in this unit you didn't just need a good memory</td>
</tr>
<tr>
<td>12</td>
<td>The staff member seemed more interested in testing what I had understood than what I had memorised</td>
</tr>
<tr>
<td>19</td>
<td>Not too many questions asked were just about facts</td>
</tr>
</tbody>
</table>

**Appropriate Assessment Scale Average**

#### Overall Satisfaction

<table>
<thead>
<tr>
<th>Score</th>
<th>Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>Overall, I am satisfied with the quality of this unit</td>
</tr>
</tbody>
</table>