References


Addendum A  Questionnaire – Supervisor perceptions of the academic literacy requirements of postgraduate students regarding the production of written academic texts

Unit for Language Skills Development
University of Pretoria
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E-mail: gustav.butler@up.ac.za

INFORMED CONSENT TO PARTICIPATE IN RESEARCH

Title of research: A framework for course design in academic writing for tertiary education

Dear colleague

The questionnaire ‘Supervisor perceptions of the academic literacy requirements of postgraduate students regarding the production of written academic texts’ forms part of a larger DPhil study in Linguistics that investigates academic writing in a tertiary academic environment. The study aims to develop a comprehensive, generative framework that could be applied to the design of writing courses aimed at the improvement of academic writing ability at the University of Pretoria (UP). In this study, the application of the designed framework will focus in particular on the academic writing needs of postgraduate students. A crucial component of the research is, therefore, to determine the specific academic writing requirements of postgraduate studies offered at the different faculties and departments/centres/units at the University.

Participation in this study is voluntary. Your personal contribution to the research is, however, extremely important in the sense that the researcher wishes to involve as many supervisors as is practically possible. Information obtained from the questionnaire will be used to make informed decisions about the content and structure of academic writing support offered to postgraduate students at the University. The data would be treated confidentially, in other words, you would not be personally implicated in the research. You might, however, lose anonymity if you declare yourself willing to participate in a short follow-up interview. At the completion of the study, the data will be incorporated into the ULSD database which consists of ongoing research data on academic literacy and language-related matters.

Ethical clearance for the study has been obtained from the Ethics Committee of the Faculty of Humanities at the University of Pretoria. Permission has also been received from the deans of faculties to distribute the questionnaire in their faculties.
Would you be so kind as to complete the consent form as well as the attached questionnaire and return it to Gustav Butler (office no. 22-4, ext. 2269, Human Sciences Building, Unit for Language Skills Development) prior to 6 June 2005.

Participant signature: _______________  Date and place: _______________

Researcher signature: _______________  Date and place: _______________
QUESTIONNAIRE - SUPERVISOR PERCEPTIONS OF THE ACADEMIC LITERACY REQUIREMENTS OF POSTGRADUATE STUDENTS REGARDING THE PRODUCTION OF WRITTEN ACADEMIC TEXTS

Instructions and additional information:

- For the purposes of this questionnaire only master’s and doctoral students are regarded as ‘postgraduate students’. All questions that focus on students are aimed at postgraduate students.
- The term ‘academic literacy’ in the context of the questionnaire refers to the integrated academic language ability of students that enables them to cope with the demands of studying in a tertiary academic environment. Such ability incorporates, amongst others, aspects of how students deal purposefully with written texts in their interpretation and production of such texts. This mainly includes: an understanding of how different academic texts work (their structure, type of content and how language is employed to create this structure and content), strategies for selecting, arranging and generating information appropriately in their academic argumentation and how students generally integrate their familiarity with academic language conventions (e.g. register, style and appropriateness and correctness of language) in their production of academic texts. In part, the purpose of this questionnaire is, therefore, to gather data on how postgraduate students are guided in their use of different aspects of this integrated ability in order to arrive at an acceptable written product that could be presented for final assessment.
- ‘Primary language’ refers to the student’s mother tongue. In other words, this is the language a student acquired first. ‘Additional language’ pertains to any other language a student has acquired apart from his/her primary language. In the UP context, ‘additional language’ students are those for whom English or Afrikaans is not their primary language.
- Please complete all sections of the questionnaire.
- Where necessary, indicate your choice with an ‘X’ in the appropriate space.
- Where requested, please provide a short motivation for your answer.

SECTION A: INSTITUTIONAL AND PROFESSIONAL INFORMATION

1 To which faculty and department/centre/unit do you belong?

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Department/centre/unit</th>
</tr>
</thead>
</table>

For office use only

V1 1-3
V2 4
V3 5-7
2a. Did you complete any formal tertiary language course (English on second year level, isiZulu on first year level, for example) in your own studies?

- Yes [ ]
- No [ ]

2b. If yes, please provide details about the course(s)/qualification:

1. 
2. 
3. 
4. 
5. 

3a. How many purely research students (writing only a research thesis) do you supervise at present?

- Master’s [ ]
- Doctorate [ ]

3b. Approximately how many postgraduate (master’s and doctoral) students have you successfully supervised?

- Master’s students [ ]
- Doctoral students [ ]

4a. Do you present specific subjects to students registered for tutored postgraduate courses?

- Yes [ ]
- No [ ]

4b. Please list the specific subject(s) that you present to these students:

1. 
2. 
3. 
4. 
5. 

4c. The subject(s) above form(s) part of the ________________________ degree.
SECTION B: ACADEMIC LITERACY

5 Please indicate whether your postgraduate students are:

1 mostly primary language users of the language in which they study.
2 mostly additional language users of the language in which they study.
3 an even spread between options 1 and 2 above.

6a Do you believe that postgraduate students' level of academic literacy regarding the language in which they study (English or Afrikaans in this case) plays any significant role in the successful completion of their studies?

Yes  No

6b Please substantiate your answer to 6a:
____________________________________________________________
____________________________________________________________
____________________________________________________________
____________________________________________________________

6c How would you rate the general level of academic literacy of your postgraduate students?

<table>
<thead>
<tr>
<th>1 poor</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5 excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

7 Do you believe that the students who are accepted for postgraduate studies in your department/centre/unit should already be sufficiently academically literate in the language of learning to cope with the demands of your discipline?

Yes  No

8a Are you of the opinion that any student with relatively ‘high’ marks (60% and above, for example) for their previous degree will be academically literate enough in the language of learning in order to cope with the demands of your postgraduate degrees?

Yes  No  Not necessarily
8b Please substantiate your answer:


9 Is it a requirement in your department to determine postgraduate students’ level of academic literacy either before or after they have enrolled?

Yes
No

9.1a If yes, how do you determine students’ level of academic literacy?

1 The overall average mark for the previous degree is used (with the obvious assumption that the student must be academically literate in the language of the discipline to have achieved the mark).

2 Students write a test of academic literacy in the language concerned.

3 Students must provide proof of previous academic writing proficiency (an article published in an accredited academic journal, for example).

4 A specific final year secondary school symbol for the language concerned is used (please specify the symbol: ____________).

5 Other (please specify):

9.1b Is the information that is gained on literacy levels in 9.1a used as an access requirement?

Yes
No

9.2a Do you find your strategy of determining levels of academic literacy reliable and valid (in effect, is this a reliable and valid instrument in determining which students to admit to your postgraduate courses regarding academic language use, or alternatively, in identifying students who need extra support with language)?

Yes
No
Partly
9.2b Please substantiate your answer above:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

9.3a If no specific strategy is used to determine your students’ level of academic literacy, are you aware of any alternative method being used to determine whether students have reached an adequate level of academic literacy in order to cope with the demands of the degree?

Yes

No

9.3b If yes, please elaborate:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

10 In your experience, what do you believe is the most difficult component of postgraduate studies for your students?

1 Mastering the literature of a specific subject/discipline (in the case of both tutored programmes and purely research studies)

2 Identifying a suitable topic for research

3 Writing the actual thesis/dissertation/report/assignment

4 Other (please specify):

SECTION C: SPECIFIC WRITING DIFFICULTIES

11 The issues addressed below form part of a comprehensive definition of academic literacy. Please assess your postgraduate students’ ability to:
11a Understand and use academic vocabulary in context:

<table>
<thead>
<tr>
<th>Level</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>excellent</th>
</tr>
</thead>
</table>

11b Understand and use subject-specific terminology in context:

<table>
<thead>
<tr>
<th>Level</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>excellent</th>
</tr>
</thead>
</table>

11c Write in an academic register/style with reference to the conventions that apply to the tertiary academic context:

<table>
<thead>
<tr>
<th>Level</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>excellent</th>
</tr>
</thead>
</table>

11d Recognise and produce different genres (e.g. essays; reports; theses) and functional text types (e.g. description; factual texts; argumentation) within an academic context:

<table>
<thead>
<tr>
<th>Level</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>excellent</th>
</tr>
</thead>
</table>

11e Interpret, use and produce information in graphic or visual format:

<table>
<thead>
<tr>
<th>Level</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>excellent</th>
</tr>
</thead>
</table>

11f Structure sentences and paragraphs appropriately:

<table>
<thead>
<tr>
<th>Level</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>excellent</th>
</tr>
</thead>
</table>

11g Use connecting devices (connectors such as ‘because’, ‘therefore’, ‘as a result’, etc.) effectively to connect ideas in sentences and between paragraphs in order to create a coherent text:

<table>
<thead>
<tr>
<th>Level</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>excellent</th>
</tr>
</thead>
</table>

11h Interpret and produce structured texts that show an awareness of the logical development of texts, from introductions to conclusions:

<table>
<thead>
<tr>
<th>Level</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>excellent</th>
</tr>
</thead>
</table>
11i Distinguish between essential and non-essential information, fact and opinion, propositions and arguments and cause and effect; and classify and categorise data that make comparisons:

| 1 | poor | 2 | 3 | 4 | 5 excellent |

11j Argue convincingly as a result of their understanding of what counts as ‘evidence’ in your discipline:

| 1 | poor | 2 | 3 | 4 | 5 excellent |

11k Write persuasively and with an ‘authoritative voice’ in the academic context:

| 1 | poor | 2 | 3 | 4 | 5 excellent |

11l Understand the implications of plagiarism:

| 1 | poor | 2 | 3 | 4 | 5 excellent |

12 How would you generally rate the level of writing ability of primary language postgraduate students and additional language postgraduate students respectively?

12a Primary language students of the language of learning:

| 1 | poor | 2 | 3 | 4 | 5 excellent |

12b Additional language students of the language of learning:

| 1 | poor | 2 | 3 | 4 | 5 excellent |

SECTION D: ACADEMIC WRITING REQUIREMENTS

13a To what extent does your students’ successful completion of their studies depend on the production of correct and meaningful written texts?

| 1 | not at all | 2 | 3 | 4 | 5 a very large extent |
13b How much writing is typically required of your students? Please elaborate (e.g. for master’s students - 3 long essays; a mini-dissertation)


14a Do you believe that the language of your academic discipline is specific to the discipline?

Yes

No

14b If you believe that discipline-specific language exists, in what way would you say is it specific to your discipline?

1. Using specific genres and functional text types (e.g. technical reports and descriptive texts)
2. Using field/subject-specific terminology
3. A combination of 1 and 2
4. Other (please specify):

15 What genres and functional text types are your students expected to produce during their studies? Please list these in priority order by starting with ‘1’ for the highest priority, ‘2’ for the next most important option and so on. Please leave the options blank that you do not choose.

<table>
<thead>
<tr>
<th>Genre</th>
<th>Priority</th>
<th>Functional text type</th>
<th>Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Research proposal</td>
<td></td>
<td>1 Description</td>
<td></td>
</tr>
<tr>
<td>2 Thesis / dissertation</td>
<td></td>
<td>2 Factual writing</td>
<td></td>
</tr>
<tr>
<td>3 Academic article</td>
<td></td>
<td>3 Argumentation</td>
<td></td>
</tr>
<tr>
<td>4 Report (laboratory, technical, research report)</td>
<td>4 Other (please specify)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Academic essay</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Other (please specify)</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>


16a Is it generally important in your academic field that students should substantiate claims that they make?

Yes [ ]
No [ ]

16b If yes, what constitutes acceptable ‘evidence’ (empirical results, for example) in your field of study?

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

17a What referencing system do you expect students to use in the completion of academic writing tasks that involve the use of sources in your subject/degree?

1 The Harvard method
2 Other (please specify):
3 I am not aware of a specific name for the method

17b How competent are students in acknowledging authoritative sources of information?

1 poor 2 3 4 5 excellent

17c Is the referencing system referred to in 17a used as a departmentally agreed upon/faculty agreed upon/university-wide system, or is it a personal preference not necessarily shared by your department/faculty/the university?

1 Departmental requirement
2 Faculty requirement
3 University requirement
4 Requirement of the discipline
5 Personal preference
## SECTION E: SUPERVISOR FEEDBACK

18a Do you offer feedback on the language use of your postgraduate students throughout the writing process when they engage in more extensive writing tasks such as dissertation, thesis or report writing?

|   |  
|---|---|
| Yes |  
| No |  

18b If you do offer feedback on language during the writing process, what type of feedback do you provide (you may indicate more than one option)?

|   |  
|---|---|
| 1  Feedback focusing on language correctness (spelling, grammar, etc.) |  
| 2  Feedback focusing on style, register and structure |  
| 3  Feedback focusing on clarity of meaning |  
| 4  Feedback on the logical sequencing of ideas |  
| 5  All of the above |  
| 6  Other: |  

19a Do you make use of any specific marking scheme (with fixed sections and marks allocated for the assessment of, for example, structure, content, etc.) for the final assessment (the formal examination) of written work produced by postgraduate students?

|   |  
|---|---|
| Yes |  
| No |  

19b Is the way in which students’ written work will be assessed (be it whether a formal marking scheme is used or not) discussed with them in detail before written work is handed in for final assessment?

|   |  
|---|---|
| Yes |  
| No |  

19c If you do make use of a marking scheme for final assessment, is there a section allocated to language use?

|   |  
|---|---|
| Yes |  
| No |  

19d Does language use form part of the marks you award in the **final assessment** of written work?

Yes [ ]
No [ ]

19e If you do consider language use in the **final assessment** of written work, what are the language issues on which you focus (you may indicate more than one option)? Please prioritise the issues you choose by starting with ‘1’ for the most important issue and continuing with ‘2’, ‘3’, etc.

1  Language correctness (grammar, spelling, punctuation, etc.)
2  Style and register used (formality, impersonality, etc.)
3  Logical flow of ideas expressed by the language (use of appropriate connectors such as “because”, “therefore”, “however”, etc.)
4  The overall structure of the text
5  Clarity of meaning
6  Other (please specify):

**SECTION F: LANGUAGE ASSISTANCE**

20 Who do you think should be responsible for teaching students the academic discourse/writing of your subject/field?

1  Subject lecturers
2  Language (writing) specialists
3  A combination of 1 and 2
4  Other (please specify):

21 What kind of assistance (if any) can academic writing experts offer to postgraduate supervisors in supporting their students with academic writing?

1  Structuring student writing
2  Acquiring stylistic features and the appropriate register of academic discourse
3  Acquiring revision and editing strategies focusing on clarity
3 Acquiring revision and editing strategies focusing on clarity of meaning as well as correctness of language

4 Other (please specify):

22 If language assistance were offered to your students, what kind of assistance would generally benefit your students most?

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1</td>
<td>An editing service only (correcting language errors)</td>
</tr>
<tr>
<td>2</td>
<td>An integrated academic literacy course focusing on the production of appropriate writing products as a consequence of the development of a more comprehensive academic literacy</td>
</tr>
</tbody>
</table>

Other (please specify):

23a Do you require students to have a final draft of a more extensive writing task language edited by a professional editor?

<p>| | |</p>
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<tbody>
<tr>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

23b If you do not require formal language editing from your students, how do you ensure the language correctness of final drafts of the written texts they produce?

_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________

24a If a short, follow-up interview needs to be conducted on the academic writing of your students, would you be prepared to participate in such an interview?

<p>| | |</p>
<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>
24b If yes, please provide details as to where you could be contacted for further arrangements. Please be advised, that although your answers to the questionnaire will be treated confidentially, you will lose anonymity.

Tel: ________________________

E-mail: ________________________
Addendum B  Questionnaire – background in academic literacy (student profile)

Unit for Language Skills Development
University of Pretoria
Researcher:  H.G. Butler
Tel:  (012) 420 2269
Cell :  082 872 5631
E-mail:  gustav.butler@up.ac.za

INFORMED CONSENT TO PARTICIPATE IN RESEARCH

Title of research:  A framework for course design in academic writing for tertiary education

Dear student

The questionnaire ‘Background in academic literacy (student profile)’ forms part of a larger DPhil study in Linguistics that investigates academic writing in a tertiary academic environment. The study aims to develop a comprehensive, generative framework that could be applied to the design of writing courses aimed at the improvement of academic writing ability at the University of Pretoria (UP). In this study, the application of the designed framework will focus in particular on the academic writing needs of postgraduate students. A crucial component of the research is, therefore, to determine in what ways postgraduate students could be supported in the development of their academic writing ability.

Participation in this study is voluntary. Your personal contribution to the research is, however, extremely important in the sense that the researcher wishes to involve as many postgraduate students as is practically possible. Information obtained from the questionnaire will be used to make informed decisions about the content and structure of academic writing support offered to postgraduate students at the University. The data will be treated confidentially, in other words, you will not be personally implicated in the research. Your anonymity regarding the information that you provide is assured. At the completion of the study, the data will be incorporated into the ULSD database which consists of ongoing research data on academic literacy and language-related matters.

Would you please be so kind as to complete the consent form as well as the attached questionnaire, and return it to your lecturer during class time?

Ethical clearance for the study has been obtained from the Ethics Committee of the Faculty of Humanities at the University of Pretoria.

Participant signature: __________________ Date and place: ________________

Researcher signature: __________________ Date and place: ________________
 QUESTIONNAIRE – BACKGROUND IN ACADEMIC LITERACY (STUDENT PROFILE)

Instructions and additional information:

- The term ‘academic literacy’ in the context of the questionnaire refers to the integrated academic language ability of students that enables them to cope with the demands of studying in a tertiary academic environment. Such ability incorporates, amongst others, aspects of how students deal purposefully with written texts in their interpretation and production of such texts. This mainly includes: an understanding of how different academic texts work (their structure, type of content and how language is employed to create this structure and content), strategies for selecting, arranging and generating information appropriately in their academic argumentation, and how students generally integrate their familiarity with academic language conventions (e.g. register, style and appropriateness and correctness of language) in their production of academic texts. In part, the purpose of this questionnaire is, therefore, to gather data on how students could be supported with different aspects of this integrated ability in order to arrive at an acceptable written product that could be presented for final assessment.

- ‘First language’ refers to the student’s mother tongue. In other words, this is the language a student acquired first.

- Postgraduate students should complete all five sections (A-E) of the questionnaire. Undergraduate students should not complete Section E, since this section is reserved for postgraduate students.

- Where necessary, indicate your choice with an ‘X’ in the appropriate space.

- Where requested, please provide a short motivation for your answer.

SECTION A: PERSONAL INFORMATION

1  Age: __________________

2  Gender:

   Male

   Female

3  Occupation: ____________________
4 Where did you complete your secondary (high) school education (school where you matriculated)?

School: ____________________________
Country: __________________________

5a Are you engaged in undergraduate or postgraduate study? Mark the appropriate box below:

Undergraduate study [ ]
Postgraduate study [ ]

5b Course registered for: ____________________________

SECTION B: LANGUAGE BACKGROUND

1 What is your first language (mother tongue)?

__________________________

V9 16-17

2 In what language did you receive your pre-tertiary education (use the 'Additional information' column for more specific information)?

<table>
<thead>
<tr>
<th>Educational level</th>
<th>Language</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary school</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary school</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

V10 18-19
V11 20-21

3 In what language are you studying at the University of Pretoria (the two languages of learning at the university are English and Afrikaans)?

English [ ]
Afrikaans [ ]

V12 22

4a Did you receive any formal schooling in the language you have chosen for your studies at the University of Pretoria (studied the language as a subject at school/additional language classes)?

Yes [ ]
No [ ]

V13 23

4b If yes, for how long did you receive formal schooling in English/Afrikaans?

_______________ years

V14 24-25
5a What was the final symbol/percentage (Std. 10/Grade 12/last year of schooling before tertiary education) you received in the language you chose for your studies at the University of Pretoria?

<table>
<thead>
<tr>
<th>Language</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td></td>
</tr>
<tr>
<td>Afrikaans</td>
<td></td>
</tr>
<tr>
<td>Did not study either language before</td>
<td></td>
</tr>
</tbody>
</table>

5b If you have not received your pre-tertiary education through either English or Afrikaans, what was the final symbol (Std. 10/Grade 12/last year of schooling before tertiary education) you received for the language in which you primarily studied at school?

<table>
<thead>
<tr>
<th>Language</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

SECTION C: STUDENT PERCEPTIONS ABOUT THE LITERACY DEMANDS OF THEIR COURSES

1 The issues addressed below form part of a comprehensive definition of academic literacy. Please rate your own ability (in the language you use for your studies) to:

1a Understand and use academic vocabulary in context:

<table>
<thead>
<tr>
<th>1 poor</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5 excellent</th>
</tr>
</thead>
</table>

1b Understand and use subject-specific terminology in context:

<table>
<thead>
<tr>
<th>1 poor</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5 excellent</th>
</tr>
</thead>
</table>

1c Write in an academic register/style (e.g. formality) with reference to the conventions that apply to the tertiary academic context:

<table>
<thead>
<tr>
<th>1 poor</th>
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1d Recognise and produce different genres (e.g. essays; reports; theses) and functional text types (e.g. description; factual texts; argumentation) within an academic context:
<table>
<thead>
<tr>
<th></th>
<th>1e Interpret, use and produce information in graphic or visual format:</th>
<th>1f Structure sentences and paragraphs appropriately:</th>
<th>1g Use connecting devices (connectors such as ‘because’, ‘therefore’, ‘as a result’, etc.) effectively to connect ideas in sentences and between paragraphs in order to create a coherent text:</th>
<th>1h Interpret and produce structured texts that show an awareness of the logical development of texts, via introductions to conclusions:</th>
<th>1i Distinguish between essential and non-essential information, fact and opinion, propositions and arguments and cause and effect; and classify and categorise data that make comparisons:</th>
<th>1j Argue convincingly as a result of your understanding of what counts as ‘evidence’ in your discipline:</th>
<th>1k Write persuasively and with an ‘authoritative voice’ in the academic context:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>poor</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>excellent</td>
<td>1</td>
</tr>
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<td>1</td>
<td>poor</td>
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<td>3</td>
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<tr>
<td>1</td>
<td>poor</td>
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<td>3</td>
<td>4</td>
<td>5</td>
<td>excellent</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>poor</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>excellent</td>
<td>1</td>
</tr>
</tbody>
</table>
11 Understand the implications of plagiarism:

<table>
<thead>
<tr>
<th></th>
<th>1 poor</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5 excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2 In your opinion, what are the most important issues in producing quality academic writing? Please prioritise the options you select by starting with ‘1’ for the most important issue and continuing with ‘2’, ‘3’, etc.

1 Correct language use (e.g. grammar, spelling)
2 Appropriate style and register (e.g. formality of language, specific way of referencing)
3 Quality of the content and argument
4 Overall structure of the written text
5 Other (please specify):

3 How could one realistically improve the quality of one’s own academic writing?

1 It is impossible to improve one’s academic writing.
2 One could learn more about the process of academic writing and improve one’s ability to revise and edit one’s own writing.
3 Get a professional language editor to edit one’s writing.
4 Both 2 and 3
5 Other (please specify):

4a Do you think that academic discourse/language (the kind of language that is used in a tertiary academic environment) is different from other types of language?

Yes
No

4b If yes, in what way(s) is it different?

____________________________________________________________
____________________________________________________________
____________________________________________________________
____________________________________________________________
____________________________________________________________

5a Do you believe that the language of your discipline/field is different from other disciplines/fields?

Yes
No

V29 □ 42
V30 □ 43
V31 □ 44
V32 □ 45
V33 □ 46
V34 □ 47
V35 □ 48
V36 □ 49
V37 □ 50
V38 □ 51
V39 □ 52-54
V40 □ 55-57
V41 □ 58-60
V42 □ 61
5b If yes, in what regard do you think is it different?

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

6a Do you think that clear academic writing is important for the successful completion of your studies?

<table>
<thead>
<tr>
<th>1 not important</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5 very important</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

6b Please substantiate your answer in 6a above:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

7 What types of writing tasks are expected of you in your studies for which you will be assessed (e.g. laboratory report; dissertation; thesis)?

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

8a Do you believe that students’ level of proficiency in academic writing is important for their lecturers/supervisors?

<table>
<thead>
<tr>
<th>1 not important</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5 very important</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

8b Please substantiate your answer in 8a above:

________________________________________________________________________
SECTION D: PERSONAL WRITING NEEDS

1. What do you find most difficult in your own academic writing? Please prioritise your choice by starting with ‘1’ for the most difficult issue and continuing with ‘2’; ‘3’, etc. for the others:

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Understanding/choosing a topic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Finding relevant information</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Incorporating sources into your writing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Organising the ideas in your written text in order to build a well-reasoned argument</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Finding the right words to express yourself</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Using language correctly</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Using language appropriately in terms of style/register</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Make use of the scale below in your response to the following statement: ‘I can benefit from relevant support with the development of my academic writing ability.’

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>strongly disagree</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>strongly agree</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3a. Do you think that you can benefit by attending an academic writing course?

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>no benefit</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>benefit greatly</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3b. Please explain your choice for 3a above:
## SECTION E: POSTGRADUATE STUDENTS ONLY

1. At which university did you receive your first degree (and additional degrees, if any – please specify)?

<table>
<thead>
<tr>
<th>Degree</th>
<th>University</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>First degree</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Honours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master’s</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doctorate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. In which language did you receive your lectures at this university / these universities?

<table>
<thead>
<tr>
<th>Degree</th>
<th>University</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>First degree</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Honours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master’s</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doctorate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3a. Have you previously attended any additional language support/academic literacy course in the language in which you have chosen to study at the University of Pretoria during your undergraduate studies?

- Yes
- No

3b. If yes, was this a general academic language proficiency / academic literacy course or an academic writing course specifically?

- General academic language proficiency/literacy course
- Academic writing course

3c. Was it compulsory for you to attend this course?

- Yes
- No
3d Please indicate on the following scale whether you believe you benefited from the course or not:

<table>
<thead>
<tr>
<th></th>
<th>1 no benefit</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5 great benefit</th>
</tr>
</thead>
</table>

3e Please substantiate your answer in 3d:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

4a When you write longer academic texts, how many drafts/versions of a written assignment do you usually produce?

- One draft
- Two drafts on average
- More than two drafts on average

4b Please explain your choice above:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

5 Which of the following steps form part of your approach to a longer academic writing assignment? Please provide a sequence for the steps you follow by starting with ‘1’ for the first step and continuing with ‘2’; ‘3’; etc. for the following steps. (Please leave options blank that do not form part of your approach.)

1 Synthesising (putting together) the information into a coherent whole
2 Revision and writing of subsequent drafts
3 Writing a first draft
4 Writing down everything you know about a topic
5 Gathering information on the topic
6 Editing and writing of the final draft
7 Analysing the topic
8 Planning your writing

6a Did university lecturers offer relevant comments on the content of your written texts during your undergraduate studies or for any subsequent degrees?

Yes [ ]  No [ ]

6b If yes, did you benefit from such comments?

1 no benefit  2  3  4  5 great benefit

6c Please explain your choice in 6b:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

7a Did university lecturers correct your language (e.g. grammar, spelling) during your undergraduate studies or for any subsequent degrees?

Yes [ ]  No [ ]

7b If yes, how much did you benefit from such correction?

1 no benefit  2  3  4  5 great benefit

7c Please explain your choice in 7b:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
8 Has professional language editing (correction) ever been a requirement in previous degrees you completed?

Yes  
No  
I cannot remember  

9 Is it a formal requirement of the degree for which you are currently registered that you have your academic writing (your thesis; dissertation; final project) edited (corrected) by a professional language editor?

Yes  
No  
I do not know  

10 In your opinion, whose responsibility is it to correct your written academic language? You may choose more than one option.

Yourself  
Supervisor  
Professional language editor  

11a What do you think are the capabilities one needs in order to correct one’s own written language?

____________________________________________________________  
____________________________________________________________  
____________________________________________________________  
____________________________________________________________  
____________________________________________________________  

11b What do you believe is your capability in correcting your own written academic texts?

1  
2  
3  
4  
5  

very capable  

11c Please substantiate your answer in 11b above:

____________________________________________________________  
____________________________________________________________  
____________________________________________________________  
____________________________________________________________  
____________________________________________________________  

V117 212
V118 213
V119 214
V120 215
V121 216
V122 217-219
V123 220-222
V124 223-225
V125 226
V126 227-229
V127 230-232
V128 233-235
Addendum C  Questions for the follow up supervisor interview on academic literacy and writing

Interviews – Agricultural and Food Sciences

In the analysis of the questionnaires, there is a clear indication that supervisors generally perceive their postgraduate students to experience academic literacy difficulties. Do you agree with this perception for both primary and additional language users? Are you increasingly faced with postgraduate applications of students who are additional language users of English?

1. It is interesting that contrary to supervisor perceptions (borne out by the results of TALL and a textual analysis of a written text your additional language students produced on the EOT 300 course), your students who completed the student questionnaire generally perceive their literacy ability to be ‘good’. Why do you think is this so? How do you think can one address this apparent mismatch in perception between supervisors and students?

______________________________________________________________________
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________

2. What is the effect of low literacy levels on student achievement? What are the main consequences for you as supervisor?

______________________________________________________________________
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________

3. The majority of supervisors indicate that traditional ways of screening students for admission (using an average mark for the previous degree, for example) are not always reliable indicators of their academic literacy levels. What do you believe is a possible reason for this? Are you aware of any reliable way to determine AL levels? Is it important to determine this before admission?

______________________________________________________________________
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________

Specific literacy difficulties of mostly additional language users are confirmed by the results of TALL as well as a textual analysis of a text that your students produced. What do you think is the best way of supporting such students with their literacy problems?
Although a majority of supervisors see academic writing as a major problem, some supervisors also indicate that students have problems reading and understanding the literature of their disciplines. Do you also think that reading is a problem? What appears to be students’ main reading difficulties? (Reading difficulty is confirmed by the TALL results and the textual analysis for your additional language students).

If one wants to design a writing course that focuses in part on students’ main writing difficulties, what do you think would be most valuable in such a writing course offered to your students? (vocabulary; register/style [do they understand?]; using genres [understand?]; general language use [grammar; sentence construction; connectors – signaling intentions]; sequencing ideas/arguing convincingly/writing with authority; do students plagiarise?).

How much writing is done by your postgraduate students? What are your typical writing assignments (genres) for postgraduate studies? (You indicated a thesis/dissertation.; essay; proposal; and report.) What type of writing is mainly involved here (argumentative; factual; descriptive)?

What counts as evidence? (You indicated experimental results; literature; and photographs.) What kind of referencing system is generally used? (You indicated the Harvard method mainly.)

Almost all supervisors indicate that they provide feedback on students’ use of language as well as their ideas throughout the writing process. Do you focus more on correctness; style/register; logical flow of ideas; structure; clarity of meaning? In your experience, does this help to improve their texts (possible difference in how students respond to feedback focusing on language correctness vs. quality of ideas)? What are the most frequent language mistakes and content problems?
9 Does language correctness play any part in the assessment of students’ major written texts (e.g. theses, dissertations, research reports)?

10 How do you ensure final correctness of student texts? Only 36% of your group of supervisors indicates that editing is a requirement – is this not a departmental or faculty requirement then? The majority of students indicate that apart from their own responsibility, supervisors also have a responsibility towards ensuring the language correctness of their texts. Do you share this view?
Addendum D  Revision table

Revision table

Name of student (whose assignment you revised): ____________________________
Name of the reviewer: ____________________________

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Is there a clear introduction, body and conclusion (not only in terms of structure but also in function)?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Is the problem that the writer investigated clearly stated in the introduction?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Does the introduction guide the reader with regard to what to expect in the rest of the assignment?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Does the evidence provided in the body of the assignment support the thesis?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Does every paragraph have a main idea that is supported and elaborated by other ideas in the paragraph?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Do all the sources quoted in the text appear in the list of references (and in the correct format)?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Have all headings and sub-headings been used purposefully?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Is the problem that the writer solved again emphasised in the conclusion?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

General comments about the assignment:

_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
Addendum E  Error correction scheme for language and style

C  Capitalisation problem
— Incorrect word order (correct word, but misplaced)
∧ Missing word or words
P  Punctuation problem
— Incorrect word form
sp  Spelling problem
art  Absence of or incorrect article usage (a/an/the)
s/v  Agreement between subject and verb (concord)
ww  Wrong word
X  Unnecessary
∪  Combine
/  Split
(?)  I did not understand (try again)
F  Fragment (incomplete sentence)
R  Run-on sentence (sentence is too long)
Addendum F  Additional examples of writing tasks

1  General text structure and connecting devices

1.1  Read the text below carefully. You will notice that the text is scrambled in terms of the sequence in which the paragraphs are presented. Arrange the text in such a way that it adheres to the general structure of introduction / body / conclusion discussed in class. Number each paragraph in the margin in order to indicate the correct sequence for the paragraphs, e.g. start with ‘1’ for the introductory paragraph. In addition, provide a heading for the text, as well as a concluding paragraph:

The greenhouse effect and global warming are already having adverse effects:

- Changes in the climate have occurred in some areas with higher average temperatures and changes in rainfall.
- Patterns and areas of food production have changed. In some parts of East Africa, rainfall has decreased and food crops have failed more frequently than before.
- Global warming has caused an overall melting of the polar ice caps and this has resulted in rising sea levels with more frequent coastal floods.

Some of the worst damage to our environment is caused by pollution. Most pollution is caused by waste materials and waste energy from people's homes, vehicles, industries, farms and other activities. The word pollution normally brings to mind waste material such as sewage, sulphur dioxide and CFCs (chlorofluorocarbons). But, pollution also includes excessive noise (e.g. from aircraft) and waste heat (e.g. from power stations).

The worst contributor to the global warming effect is carbon dioxide produced by the burning of fossil fuels. In addition to molecules of carbon dioxide being larger, they are heavier than the gases in clean air, such as oxygen and nitrogen. Because of this, heat radiation cannot pass through carbon dioxide as easily as it passes through clean air. As a result of the rising concentration of carbon dioxide in the atmosphere, less heat escapes from the Earth and the temperature slowly rises. In other words, carbon dioxide traps heat in the Earth like a greenhouse. This has led to the term greenhouse effect.
One of the most serious effects from waste gases and waste heat is the warming of the Earth (global warming). **As a result**, different experts have estimated that global warming will have increased the temperature of the Earth by between 1 and 3 degrees Celsius by the year **2050**.

*WESSA, 1998:122*
1.2 What are the main functional characteristics of the paragraph(s) in the:

Introduction:__________________________________________________________

____________________________________________________________________

Body:________________________________________________________________

____________________________________________________________________

Conclusion:__________________________________________________________

____________________________________________________________________

1.3 Make use of the text on global warming that you have already employed in the previous task to create a meaningful context for this task. All the words in bold are logical connectors and have the function of creating cohesion between ideas in the text. Locate the connectors mentioned below in the text and write down which ideas are connected by each of these connectors. Remember that we are not necessarily referring to complete sentences here, but ideas. The idea that you write down may, therefore, also be represented by a single word.

1 ‘and’ (line 3)

Idea 1:________________________________________________________________

Idea 2:________________________________________________________________

2 ‘such as’ (line 16)

Idea 1:________________________________________________________________

Idea 2:________________________________________________________________
3  'But' (line 17)

Idea 1:_______________________________________________________________
Idea 2:_______________________________________________________________

4  'in addition' (line 21)

Idea 1:_______________________________________________________________
Idea 2:_______________________________________________________________

5  'Because' (line 22)

Idea 1:_______________________________________________________________
Idea 2:_______________________________________________________________

6  'As a result' (line 24)

Idea 1:_______________________________________________________________
Idea 2:_______________________________________________________________

7  'In other words' (line 25)

Idea 1:_______________________________________________________________
Idea 2:_______________________________________________________________

8  'If' (line 30)

Idea 1:_______________________________________________________________
Idea 2:_______________________________________________________________
9 'As a result' (line 36)

Idea 1: ____________________________________________________________
Idea 2: ____________________________________________________________

10 '2050' (line 38)

Idea 1: ____________________________________________________________
Idea 2: ____________________________________________________________

1.4 Consult the reference list of connectors provided to you and see whether you can substitute the connectors you have used in 1.3 by at least one other connector from the same category in the list (do this in the original text by writing in the alternative just above the original word/phrase).
Reference list of logical connectors (signpost words)

- **Additive words** (these words usually add information to what has already been said)

  | also       | further   |
  | and        | furthermore |
  | as well as | in addition |
  | at the same time | likewise |
  | besides    | moreover   |
  | equally important | too |

- **Amplification words** (these words usually expand or enlarge upon preceding ideas)

  | as            | specifically |
  | for example   | such as      |
  | for instance  | that is      |
  | in fact       | to illustrate |

- **Repetitive words** (a writer or speaker could use these words in order to repeat something with more emphasis or to make it more understandable)

  | again        | that is      |
  | in other words | to repeat  |
• **Contrast and change words** (the writer will most probably use these words to introduce the 'other side of the story', or, in other words, the contrasting side of the argument)

<table>
<thead>
<tr>
<th>but</th>
<th>notwithstanding</th>
</tr>
</thead>
<tbody>
<tr>
<td>conversely</td>
<td>on the other hand</td>
</tr>
<tr>
<td>despite</td>
<td>still</td>
</tr>
<tr>
<td>even though</td>
<td>though</td>
</tr>
<tr>
<td>however</td>
<td>whereas</td>
</tr>
<tr>
<td>in contrast</td>
<td>yet</td>
</tr>
</tbody>
</table>

• **Cause and effect words** (these words are used when one wants to introduce or link ideas of causality and consequence)

<table>
<thead>
<tr>
<th>accordingly</th>
<th>since</th>
</tr>
</thead>
<tbody>
<tr>
<td>as a result</td>
<td>so</td>
</tr>
<tr>
<td>because</td>
<td>then</td>
</tr>
<tr>
<td>consequently</td>
<td>therefore</td>
</tr>
<tr>
<td>for this reason</td>
<td>thus</td>
</tr>
</tbody>
</table>

• **Qualifying words** (these words introduce important information that is usually necessary to make the data or concepts that are discussed valid. They, therefore, introduce conditions under which the data or concepts are to be considered)

<table>
<thead>
<tr>
<th>although</th>
<th>providing</th>
</tr>
</thead>
<tbody>
<tr>
<td>if</td>
<td>unless</td>
</tr>
</tbody>
</table>
• **Emphasising words** (these words are used to highlight or emphasise that of which the sender of a message wants the receiver to take special note)

| above all | more / most important (ly) | more / most significant (ly) |

• **Order words** (these words are used when the sender of the message wants to point to a specific sequence or order of events or data)

| afterwards   | now                  |
| at the same time | presently / today    |
| before        | subsequently         |
| first (ly), second (ly)... | then                    |
| formerly      | ultimately           |
| last (ly)     | until                |
| later         | while                |
| meanwhile     | historically         |
| next          | historical periods   |

• **Summarising words** (senders usually use these words when they would like to make sure that the receiver grasped the essence of their argument before they continue. It could be useful for both senders and receivers to check [by using these words] whether the main line of argument is understood)

| briefly       | in conclusion       |
| in brief      | to summarise / to sum up |
| in short      | in summary          |

*(Adapted from Orr and Schutte, 1992)*
2 Referencing

When one wants to use quotations in a text that one is writing, the sources of such quotations should be properly acknowledged. The following are examples of how this should be done in the text itself and finally in the bibliography (list of references) at the end of one's assignment or research project:

For references in the text, the abbreviated Harvard method of reference should be used with no footnotes or endnotes:

Quoting indirectly:
According to Mokoena (1984:3), the role of …
… Behr (1983:42) states that …

Direct quote:
It is of utmost importance that "the student should take responsibility for his own learning " (Spengler, 1992:16).

The following are examples of typical entries in a list of references for the main types of sources (they have all been taken from the example list below):

- A book with one author:

• A book with editors:


• A journal article:


• An Internet reference:

Example of a list of references:

<table>
<thead>
<tr>
<th>REFERENCES</th>
</tr>
</thead>
</table>
2.1 The list of references below contains a number of inconsistencies with the Harvard method of referencing we discussed in class. Read through the list, encircle all such inconsistencies and make suggestions on the list as to how you would correct the entries:


*(Adapted from Weideman, 2003b)*
2.2 Include the full bibliographical details of all the articles on 'desertification' that you have selected to read comprehensively in the form of a reference list below. Before you write this down, make sure again that you do this according to the format that we discussed in class (the Harvard method):

References:

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2.3 It usually makes a lot of sense, while busy reading, to also highlight possible quotes that you can use when you write up your research. Many students vaguely remember that somewhere in their extensive reading about a topic they read something they could have used to support an idea they wish to use in their writing. How many students will re-read all the material in order to find one quote? Not many, we think. Write down at least three direct quotes that you think could be useful in your literature survey on 'desertification' from the articles that you have selected. Make sure that you include the author as well as page references for these quotes (according to the Harvard method).
Also underline the keywords/key concepts in the quotes to show which issues you want to introduce or support by using the quote.

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3 Locating and organising main ideas

In the academic context, it is crucial to know that **not all information is equal**. If a paragraph, for example, were well constructed, there would usually be **one main idea** that is supported by evidence, for example, and/or other subsidiary/explanatory information. This is also how efficient students read academic texts – they select the main ideas from paragraphs in order to emphasise such ideas for themselves. Similarly, this is how effective writers write – by constructing a paragraph around one main idea.

It is further important to know that, when reading and interpreting a text, the main idea does not necessarily equate to a complete sentence. It is quite natural, for example, to read a sentence, pick out the keywords from the sentence and combine these words to form a main idea. This is exactly what should happen in Task 3.1 below.

3.1 Identify the main ideas in each paragraph in the following text by underlining or encircling them:

**Genetically modified foods and organisms**

**What are Genetically Modified (GM) Foods?**

Although 'biotechnology' and 'genetic modification' commonly are used interchangeably, GM is a special set of technologies that alter the genetic makeup of such living organisms as animals, plants, or bacteria. Biotechnology, a more general term, refers to using living organisms or their components, such as enzymes, to make products that include wine, cheese, beer, and yogurt.

Combining genes from different organisms is known as recombinant DNA technology, and the resulting organism is said to be 'genetically modified', 'genetically engineered', or 'transgenic'. GM products (current or in the pipeline) include medicines and vaccines, foods and food ingredients, feeds, and fibres.

Locating genes for important traits - such as those conferring insect resistance or desired nutrients - is one of the most limiting steps in the process. However, genome
sequencing and discovery programs for hundreds of different organisms are generating detailed maps along with data-analyzing technologies to understand and use them.

In 2003, about 167 million acres (67.7 million hectares) grown by 7 million farmers in 18 countries were planted with transgenic crops, the principal ones being herbicide- and insecticide-resistant soybeans, corn, cotton, and canola. Other crops grown commercially or field-tested are a sweet potato resistant to a virus that could decimate most of the African harvest, rice with increased iron and vitamins that may alleviate chronic malnutrition in Asian countries, and a variety of plants able to survive weather extremes.

On the horizon are bananas that produce human vaccines against infectious diseases such as hepatitis B; fish that mature more quickly; fruit and nut trees that yield years earlier, and plants that produce new plastics with unique properties.

In 2003, countries that grew 99% of the global transgenic crops were the United States (63%), Argentina (21%), Canada (6%), Brazil (4%), China (4%), and South Africa (1%). Although growth is expected to plateau in industrialized countries, it is increasing in developing countries. The next decade will see exponential progress in GM product development as researchers gain increasing and unprecedented access to genomic resources that are applicable to organisms beyond the scope of individual projects.

Technologies for genetically modifying foods offer dramatic promise for meeting some areas of greatest challenge for the 21st century. Like all new technologies, they also pose some risks, both known and unknown. Controversies surrounding GM foods and crops commonly focus on human and environmental safety, labelling and consumer choice, intellectual property rights, ethics, food security, poverty reduction, and environmental conservation.

(Ackerman, 2002:45)
GM foods and organisms
Addendum G  Recordings of the supervisor interviews on DVD