MEMBERS OF THE BOARD OF STUDIES OF SCIENCE

As it was considered unlikely that any of the items listed below would require substantial discussion it was decided that they be circulated to Board of Studies members for consideration and approval.

If you wish to comment on any of the items below please advise me of your comments/suggestions/objections no later than cob Tuesday 15 July 2008. Depending on the nature of the comments/suggestions/objections the item may be carried over to the next meeting of the Board of Studies as an item for discussion, otherwise the items will be deemed to have been approved by the majority of members.

If no comments/suggestions/objections have been received by Tuesday 15 July 2008, the items will be processed in the normal way and the recommendations will be recorded as resolutions in the minutes of the Board of Studies of Science.

A full copy of this circular (including attachments) is sent to all school secretaries for consultation by Board of Studies members.

Imelda Ooi
Administrative Officer, Faculty of Life and Physical Sciences

ITEMS FOR CONSIDERATION BY CIRCULAR

1. PROPOSED CHANGES TO UNIT OFFERINGS IN THE CHEMISTRY DISCIPLINE  REF: F5075

The School of Biomedical, Biomolecular and Chemical Sciences, has submitted a proposal (Attachment A), to reduce its Level 3 unit offerings in Chemistry. Currently, the Discipline offers ten 6-point units at 3rd year level. The units support majors in chemistry, chemical physics and environmental chemistry. Whilst seven of the units are required for various programmes, CHEM3301, CHEM3306 and CHEM3308 are not essential for programmes but are considered essential preparation for students wishing to pursue research in honours and higher degrees at UWA. In order to ease serious, staff workload issues within the Discipline, the School proposes that some Level 3 units be offered every second year. Eight Level 3 units will be offered each year, with CHEM3301 and CHEM3306 only offered in even years and CHEM3305 and CHEM3307 only offered in odd years. As a phasing-in year for 2009, CHEM3301, CHEM3305, and CHEM3307 will be offered but CHEM3306 and CHEM3311 will not be offered.

The Dean supports the proposed changes to the unit offerings in the Chemistry Discipline.

2. PROPOSED NEW UNIT – PHYS33XX PHYSICS VACATION PROJECT  REF: F5075

The School of Physics is proposing a new unit, PHYS33XX Physics Vacation Project, which is a research project taken during the summer vacation. The unit is available to third year students intending to proceed to honours in Physics. The School has been offering vacation research projects for over 15 years and students have now requested that they receive credit for these projects.

Proposal for the new unit is attached (Attachment B).

The Chair recommends that the proposed new unit, PHYS33XX Physics Vacation Project, be endorsed.
3. PROPOSED CHANGE OF UNIT NAMES FOR HMES3377 AND HMES3356 REF: F5075

Based on the recommendation of the Dean, the School of Sport Science, Exercise and Health has decided to combine some of its units and making other units available at graduate level. The School wishes to change the names of the following units for 2009:

<table>
<thead>
<tr>
<th>Unit code</th>
<th>Current name</th>
<th>Proposed name</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMES3377</td>
<td>Management and Marketing in Sport, Health and Recreation of Exercise Science</td>
<td>Sport, Health and Recreation Management</td>
</tr>
<tr>
<td>HMES3356</td>
<td>Neuromuscular Biomechanics</td>
<td>Neuromuscular Biomechanics and Motor Control</td>
</tr>
</tbody>
</table>

The School has also proposed in the covering letter (Attachment C), that the following units be listed as not available in 2009 as they will be converted to graduate units in 2010:

HMES3303 Sport/Recreation and Health Management
HMES3346 Skill Acquisition and Performance in Sport
HMES3387 Human Performance in Industry

The Chair recommends that the following be endorsed:

(i) the change in unit name of HMES3377 Management and Marketing in Sport, Health and Recreation of Exercise Science to 'Sport, Health and Recreation Management' and HMES3356 Neuromuscular Biomechanics to 'Neuromuscular Biomechanics and Motor Control'; and

(ii) HMES3303, HMES3346 AND HMES3387 be listed as not available in 2009.

4. SUPPRESSION OF UNITS SCIE1121 OUR UNIVERSE, AND SCIE1122 OUR SOLAR SYSTEM
   REF: F5075

The Head of the School of Physics has advised that the recent review of the School of Physics recommended that the School cut back on its undergraduate units with low enrolments. The School advises that enrolments in two of its units namely, SCIE1121 Our Universe and SCIE1122 Our Solar System, have fluctuated in the range of 15-20 students since their inception. The School feels that the units are consuming a valuable resource namely staff time, which can be used more profitably for research and postgraduate supervision. The School however, does not wish to delete these two units pending the outcome of UWA Course Structures Review as it feels that the units would be ideal for students in Arts, and requests that the units be listed as not available in 2009. The covering letter from the Head of the School is attached (Attachment D).

The Chair recommends that SCIE1121 Our Universe and SCIE1122 Our Solar System, be listed as not available in 2009.

5. PROPOSED CHANGE OF UNIT NAMES FOR CHEM8801 AND CHEM8802 REF:

The School of Biomedical, Biomolecular and Chemical Sciences wishes to change the unit name of the following units offered in the Master of Science (Analytical Chemistry) as the current name of both units is open to misinterpretation that they are two parts of the same unit when in fact they are two separate units.

<table>
<thead>
<tr>
<th>Unit code</th>
<th>Current name</th>
<th>Proposed name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM8801</td>
<td>Analytical Chemistry I: Molecular Analysis</td>
<td>Analytical Chemistry for Molecular Analysis</td>
</tr>
<tr>
<td>CHEM8802</td>
<td>Analytical Chemistry II: Elemental Analysis</td>
<td>Analytical Chemistry for Elemental Analysis</td>
</tr>
</tbody>
</table>

The Chair recommends that the change in unit name of CHEM8801 Analytical Chemistry I: Molecular Analysis to 'Analytical Chemistry for Molecular Analysis' and CHEM8802 Analytical Chemistry II: Elemental Analysis to 'Analytical Chemistry for Elemental Analysis', be endorsed.
6. PROPOSED AMENDMENT TO BIOPHYSICS HONOURS REF: F4788

The School of Physics has reviewed the Rules for the Biophysics honours in light of current student enrolments. The School is proposing to amend the structure in order to bring it in line with that of other structures currently in place in other schools in the Faculty, that is, to put more weight on the honours research project. The amendments are as follows:

(i) changing the points value of the dissertation unit from 24 points to a new 36-point Biophysics Honours Research Project; and

(ii) the remaining coursework units to the value of 12 points chosen from three recommended units and other units, in consultation with the Honours Co-ordinator.

Checklist for the proposed new Biophysics Honours Research Project unit and a copy of the amended Rules are attached (Attachment E).

*The Chair recommends that the changes to the Rules for Biophysics Honours be endorsed.*
Proposal to reduce 3rd year unit offerings in Chemistry

The Discipline of Chemistry in the School of Biomedical, Biomolecular and Chemical Sciences currently offers ten 6 point units at 3rd year level:

<table>
<thead>
<tr>
<th>Level 3 unit</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM3301 Organometallic and Polymer Chemistry</td>
<td>CHEM2210, CHEM2211</td>
</tr>
<tr>
<td>CHEM3302 Structure Determination in Chemistry</td>
<td>CHEM2210 + 6pts level 2 Chem</td>
</tr>
<tr>
<td>CHEM3304 Analytical and Physical Chemistry</td>
<td>CHEM2210, CHEM2220</td>
</tr>
<tr>
<td>CHEM3305 Biological Chemistry</td>
<td>CHEM2210, CHEM2221</td>
</tr>
<tr>
<td>CHEM3306 Modern Organic Synthesis</td>
<td>CHEM2210, CHEM2211</td>
</tr>
<tr>
<td>CHEM3307 Metals in Biological Chemistry</td>
<td>CHEM2210, CHEM2221</td>
</tr>
<tr>
<td>CHEM3308 Industrial Chemistry</td>
<td>CHEM2210, CHEM2220</td>
</tr>
<tr>
<td>CHEM3309 Chemistry in the Workplace</td>
<td>CHEM2210</td>
</tr>
<tr>
<td>CHEM3310 Environmental Chemistry</td>
<td>CHEM2210, CHEM2220</td>
</tr>
<tr>
<td>CHEM3311 Green Chemistry</td>
<td>CHEM2210</td>
</tr>
</tbody>
</table>

These units satisfy a broad range of student interests, primarily in Science and Engineering. They support majors in Chemistry, Chemical Physics, and Environmental Chemistry. In addition, seven of the units are required for various programmes:

- Biomedical Science (Molecular Medicine) CHEM3305 + CHEM3307
- Biophysical Science (Chemistry) CHEM3305, CHEM3307, CHEM3309 (+ one other)
- Geochemistry CHEM3309, CHEM3310
- Green Chemistry CHEM3309, CHEM3311
- Molecular Biology and Biotechnology CHEM3305, CHEM3307 (Molecular Medicine)
- Nanotechnology three CHEM33XX (excluding CHEM3309, which is covered in 2nd year)
- Physical Science (Chemistry) CHEM3309 + three other CHEM33XX units
- Scientific Computation CHEM3302+CHEM3304

The units that are not essential for programmes (CHEM3301, CHEM3306, CHEM3308) are considered essential preparation for many students wishing to pursue research in Honours and higher degrees at UWA.

The Discipline wishes to reduce its Level 3 offerings (and hence ease some serious workload issues) in a way that will minimise negative impacts on students. Simple deletion of units from the Chemistry 3rd year offerings will impact unfavourably on many students involved in programmes and foundation packages. Thus, the Discipline proposes the following scheme, in which some Level 3 units are only offered every second year. The impact of this change on students is minimised by having these units run in second semester, with their prerequisite Level 2 units run in the preceding semester. In this way, a student will be able to take a Level 3 unit in the second year of their degree when that unit will not be offered in the third year of their degree.

The scheme has eight Level 3 units offered each year, with CHEM3301 and CHEM3306 only offered in even years and CHEM3305 and CHEM3307 only offered in odd years. For 2009 only, as a phasing-in year, CHEM3301, CHEM3305, and CHEM3306/7 will be offered but CHEM3306 and CHEM3311 will not be offered.

A/Prof Murray Baker
Chair of Discipline, Chemistry

Prof Geoff Stewart
Head, School of Biomedical, Biomolecular and Chemical Sciences
Proposed Chemistry 2nd and 3rd year unit offerings.

<table>
<thead>
<tr>
<th>For 2009 only</th>
<th>Even years, from 2010</th>
<th>Odd years, from 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st semester</td>
<td>2nd semester</td>
<td>1st semester</td>
</tr>
<tr>
<td>CHEM2210</td>
<td>CHEM2220</td>
<td>CHEM2210</td>
</tr>
<tr>
<td>CHEM2221</td>
<td>CHEM2211</td>
<td>CHEM2211</td>
</tr>
<tr>
<td>CHEM3301</td>
<td>CHEM3305</td>
<td>CHEM3302</td>
</tr>
<tr>
<td>CHEM3302</td>
<td>CHEM3307</td>
<td>CHEM3304</td>
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<tr>
<td>CHEM3304</td>
<td>CHEM3308</td>
<td>CHEM3310</td>
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<tr>
<td>CHEM3310</td>
<td>CHEM3309</td>
<td>CHEM3311</td>
</tr>
<tr>
<td></td>
<td>not offered: 3311, 3306</td>
<td>not offered: 3305, 3307</td>
</tr>
</tbody>
</table>
PROPOSALS FOR NEW UNITS

Core Questions for Checklists used by Faculties

All faculties must include the questions below in their checklists for new units. Faculties may add other questions as they see fit.

1. **Unit Details**

   (1) Please provide the following information:

   (a) the proposed name of the unit; *(The character allowance for unit titles in Callista is 100 for long, 40 for short and 20 for abbreviated.)*
   PHYS33XX Physics Vacation Project

   (b) the proposed point value of the unit *(NB. By Council Resolution 110/02, all units must have a points value of 6 unless granted exemption;)*
   6 points

   (c) a very brief description, not exceeding one line in length, of the content/area of the unit;
   Physics Research Project taken during the summer vacation

   (d) the names of the degree, diploma and/or certificate courses in which you intend to offer the unit:
   50110 Bachelor of Science
   51020 Bachelor of Science and Bachelor of Commerce
   51160 Bachelor of Science and Bachelor of Engineering
   51180 Bachelor of Science and Bachelor of Education
   51190 Bachelor of Arts and Bachelor of Science
   21150 Bachelor of Laws and Bachelor of Science

   (e) the proposed quota on intake to the unit, if any, and the nature of the constraint on intake.
   This unit is available to third-year students intending to proceed on to Honours in Physics. Intake is constrained by the number of available projects and provision of suitable supervision.

   (2) Please give a succinct summary of the academic objectives of the unit.
   Students undertake a 6 week research project and write a report.

   (3) Please summarise what teaching and learning practices will be used to realise the academic objectives.
   Students will undertake the research project under the close supervision of a researcher, who will mentor the student in all aspects of research practice and report writing.

   (4) Please advise what technologies (if any) will be required to support the teaching and learning practices.
   Students will use existing laboratory equipment and software packages.

   (5) Please outline what steps have been taken to ensure that any technologies to be used are readily available to staff and students.
   The technologies are currently available in the research laboratory in which the project will be undertaken.

   (6) Please indicate whether the unit is the outcome of a school, course or other review.
   The School of Physics has offered vacation research projects *(with scholarship presently paying $250 per week tax free for 6 weeks)* for over 15 years. Students have requested that they be awarded credit points for the research work undertaken.

   (7) Please advise whether the unit utilises any material from existing units. If so, please provide details.
   No
(8) Please advise whether the unit is to be offered within standard semester dates. (If it is not, please attach a proposal form for a non-standard semester unit.)

No. Starting and finishing dates are flexible within the summer teaching period and can be negotiated with the supervisors for the project.

(9) Please advise whether lecture outline has been provided.
N/A

2. Demand

(1) What are the estimated annual enrolments?
3 - 5

(2) How has the estimate in (1) been arrived at?
Expressions of interest from potential students

(3) From which other units are students likely to move?
None

3. Assessment

(1) Please advise how many examinations there will be for the unit and how long each will last. (Note: By Academic Council R16/94 the Examinations Office administers only standard examinations of 2 or 3 hours duration).
No exam

(2) If you do not propose to use more than one means of assessment for this unit (as recommended in the University’s Guidelines on Assessment [http://www.secretariat.uwa.edu.au/home/policies/assessment], please explain the reason for this.

Assessment of the project is in two parts:
a. The research work, assessed by the supervisor(s) – 30%
b. The report, graded and ranked by a panel of report readers – 70%

4. Grading Schema for Unit

(1) Schools are required to ensure that final results\(^1\) for units in courses at all levels be produced as both percentage marks and letter grades wherever possible. However, a number of categories of unit\(^2\) are exempt from this requirement. The following exemptions categories are pertinent for this checklist.

(i) units where the involvement of external assessors makes it difficult to compare students' performance in an equitable manner and provide appropriately graded results for the units (for example, in-country units, cross-institutional enrolments and practicum units);

(ii) units involving group activity where the contribution of individual students cannot be distinguished (for example, participation in the University Chorale/Orchestra compulsory field tours);

(iii) specific skill-acquisition only units, which may be taken to be completed merely by attendance and participation (for example, use of medical equipment, legal skills such as negotiation and mediation).

(2) Please indicate if it is intended that the result for the unit be recorded as an ungraded pass or ungraded fail only.

NO (Please delete as appropriate)

(3) If the answer is YES please indicate into which of the categories of exempt units listed above the unit belongs.

\(^1\)Results for supplementary assessment are recorded as Ungraded Pass or Ungraded Fail and the original mark remains. See University General Rule 1.2.1.26(3).

\(^2\)Please see policy applying to ungraded passes and fails available at [http://www.secretariat.uwa.edu.au/home/policies/courseunit] (B2)
5. **Resource-related matters**

(1) Please advise whether all the costs of the unit (e.g. including, if appropriate, those associated with teaching at the Albany Centre such as Library/computer software resources) will be met from school resources or whether the proposal is the subject of application for other funding (e.g. University Initiatives Fund).

**All costs will be met from school resources**

(2) Please indicate whether the school intends to suppress another unit to release resources for this one.

*No*

(3) Please name the staff members who are able to teach the unit.

*Research students are assigned academic staff supervisors at the outset of the project.*

(4) Please confirm that you have attached a completed Library Consultation Form.

*N/A*

(5) Will the introduction of this unit give rise to any accommodation needs other than standard lecture theatres, tutorial rooms or laboratory space (e.g. office space, new kinds of laboratory space) which cannot be met from the School’s/Faculty’s existing space allocation? Please ensure that your understanding is consistent with that of the Dean.

*No*

If YES, please confirm that you have attached a completed Accommodation Planning Form (http://www.secretariat.uwa.edu.au/home/policies/courseunit/proposals).

(6) Will there be any ancillary student fees/charges associated with this unit? If so, please confirm that you have submitted details of these to the Dean.

(See http://www.teachingandlearning.uwa.edu.au/lt4/for_uwa_students2/policies/asfc3)

*No*

6. **Consultation**

Please provide details of the consultations you have had with various groups and individuals during the development of this proposal, including the following:

- heads of schools in cognate areas, which may have an interest in the unit content;
- students and graduates;
- employers and/or employer groups and professional bodies;
- other universities in WA which teach similar units;
- other leading universities in Australia or overseas which teach similar units.

The guidelines at http://www.scholarships.uwa.edu.au/home/vacation/vacation_guidelines have been followed. The School of Biomedical, Biomolecular and Chemical Sciences (BBCS) offers similar projects: http://www.biomedchem.uwa.edu.au/information_for/students/scholarships/application

7. **Information Flow**

Please confirm, by ticking the boxes and entering the date of action, that you have forwarded a copy of this proposal, either in hard copy or electronically, to:

- The Deans of all faculties involved, either through offering the unit in their degrees, or through resourcing your school.

<table>
<thead>
<tr>
<th>Faculty of</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- The Head of any school which teaches in a cognate area (specify below).

<table>
<thead>
<tr>
<th>School of</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>BBCS</td>
<td>08/07/08</td>
</tr>
<tr>
<td>Electrical and Electronic Engineering</td>
<td>08/07/08</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8. Confirmation by Head of School

I confirm that the process leading to the proposal for the introduction of

**PHYS33XX Physics Vacation Project**

(Name of new unit)

has included appropriate consultation with all other schools, both internal and external to the faculty, with a potential interest in the proposed unit and that the proposed unit will not overlap significantly with any existing unit.

Have any objections to this proposal been raised during the consultation process?
☐ Yes
✓ No
(If yes, please attach details of objection and response)

Signature of Head

[Signature]

School of

[PHYSICS]

Academic Secretariat
April 2008
(New_Unit_Checklist)
PROPOSAL TO OFFER UNITS IN A NON-STANDARD SEMESTER

All proposals to offer units which do not conform to the University's standard semester dates require the approval of the relevant dean.

Notes:
1. The procedure is in 2 stages: (1) Dean to forward initial completed proposal form to Student Administration; (2) Dean to advise Student Administration by the end of September each year of the specific dates when the unit/s will be offered in the following year.
2. Where a faculty has been given approval by the Academic Board/Council to run a whole course on a non-standard semester basis (eg. a transnational course or the MBA trimester system), deans must complete the form below but at the level of the course rather than individual units. Deans must still advise Student Administration by the end of September each year of the dates when individual units will be offered.
3. A separate form and approval process applies to units to be offered in the summer session.

To be completed by Head of School

1. Please provide the following details.

<table>
<thead>
<tr>
<th>Unit code/s</th>
<th>Unit name/s</th>
<th>Points value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS3xxx</td>
<td>Physics Vacation Project</td>
<td>6</td>
</tr>
<tr>
<td>50110</td>
<td>Bachelor of Science</td>
<td></td>
</tr>
<tr>
<td>51020</td>
<td>Bachelor of Science and Bachelor of Commerce</td>
<td></td>
</tr>
<tr>
<td>51160</td>
<td>Bachelor of Science and Bachelor of Engineering</td>
<td></td>
</tr>
<tr>
<td>51180</td>
<td>Bachelor of Science and Bachelor of Education</td>
<td></td>
</tr>
<tr>
<td>51190</td>
<td>Bachelor of Arts and Bachelor of Science</td>
<td></td>
</tr>
<tr>
<td>21150</td>
<td>Bachelor of Laws and Bachelor of Science</td>
<td></td>
</tr>
</tbody>
</table>

Course(s) in which unit is offered:

Approximate start and end dates for teaching period (exact dates to be advised annually):
Starting and finishing dates are flexible within the summer semester.

Total no. of contact hours: 240 hours
Method of delivery (eg. 13x3-hour seminars): 6 weeks

2. Please provide a rationale for this unit to be taught in a non-standard semester format.

Summer vacation projects have been offered by the School of Physics for over 15 years. Students have requested that that these projects can be taken for credit, and this new unit is being introduced to address this request.

To be completed by Dean of Faculty

I authorise the above unit(s) to be taught in a non-standard semester and confirm that the proposed approach to the teaching of this unit will ensure that academic standards are comparable to those for units taught in standard semesters.

I undertake to advise Student Administration by the end of September each year of the dates when the unit/s will be offered in the following year. If it is necessary to vary these dates after the end of September, the Faculty or relevant School will write to each student enrolled in the course to advise amended withdrawal dates.

Signature: _______________________________ Name: _______________________________

Faculty: _______________________________ Date: _______________________________

To be forwarded to Student Administration once signed by the Dean.
2 June 2008

Ms Jenny Gamble
School Manager
Faculty of Life and Physical Sciences
M011

Dear Jenny

Re: Change of Unit Names

As a result of a directive from the Dean of Science, the School of Sport Science, Exercise and Health has decided to combine some units and make other units available at graduate level, and therefore would like to modify the names of the following two units for 2009:

HMES3377 to HMES3377
Management and Marketing in Sport, Health and Recreation of Exercise Science

HMES3356 Neuromuscular Biomechanics to HMES3356 Neuromuscular Biomechanics and Motor Control

Units HMES3303, HMES3346 and HMES3387 will not be available in 2009 but will become graduate units in 2010.

Thank you for your consideration of this request.

Yours sincerely,

Bruce Elliott, Professor
Head of School
June 2, 2008

Professor George Stewart  
The Dean  
Faculty of Life and Physical Sciences

Re: the units SCIE1121/1122

Dear George,

Although the report on the review of physics has not yet been released, the review committee indicated that they supported the proposal in the School strategic plan to cut back on undergraduate units with low enrolments that are not core to the physics major. This is also consistent with the outcomes of the recent Faculty Planning Workshop.

In the case of the units SCIE1121 Our Universe and SCIE1122 Our Solar System, enrolments have fluctuated in the range 15-20 students since their inception. Whilst student feedback on these units is good, they were set up with the objective of substantial enrolment (of the order of 100 students) from the Arts Faculty, modeled on similar units at UNSW. This objective has clearly not been met. Whilst not actually losing money, the units are consuming a valuable resource, namely staff time, that can more profitably be used for research and postgraduate supervision.

The School is investigating the option of mounting a major in astrophysics. The units SCIE1121 and SCIE1122 are not suitable for inclusion in the major on two grounds: (1) they do not have any physics or maths prerequisites and are at too low a level for such a major; (2) we would want Science/Engineers to be able to access the major, and they do not have points available at first year to access units in addition to PHYS1101/1102 and MATH1010/1020, which would be part of the major.

The Curriculum Executive in the School of Physics has therefore resolved to request Faculty not to make these units available in 2009. We would not want these units deleted until the outcome of the review of courses is known - as already noted, student feedback on the units is good, and if all students in arts end up having to do some science units, these units would be ideal.
Mark Barley from SEGS also teaches into SCIE122 Our Solar System. I have notified Peter Cawood, Acting Head of SEGS, that we intend to request that these units not be available in 2009.

Yours sincerely,

[Signature]

Associate Professor Ian McArthur
HEAD OF SCHOOL

[Stamp: APPROVED]

Dean, Faculty of Life & Physical Sciences
PROPOSALS FOR NEW UNITS

Core Questions for Checklists used by Faculties

All faculties must include the questions below in their checklists for new units. Faculties may add other questions as they see fit.

1. **Unit Details**

   (1) Please provide the following information:

   (a) the proposed name of the unit; *(The character allowance for unit titles in Callista is 100 for long, 40 for short and 20 for abbreviated.)*

   **Biophysics Honours Research Project (Part 1 and Part 2)**

   (b) the proposed point value of the unit *(NB. By Council Resolution 110/02, all units must have a points value of 6 unless granted exemption;)*

   36 points

   (c) a very brief description, not exceeding one line in length, of the content/area of the unit;

   **A research project in the area of biophysics**

   (d) the names of the degree, diploma and/or certificate courses in which you intend to offer the unit;

   **BSc Biophysics Honours**

   (e) the proposed quota on intake to the unit, if any, and the nature of the constraint on intake.

   **None**

   (2) Please give a succinct summary of the academic objectives of the unit.

   **The academic objective is the attainment of training in research methods in the context of biophysical science.**

   (3) Please summarise what teaching and learning practices will be used to realise the academic objectives.

   **Students will receive one-on-one supervision from a member of staff. Training in literature search methods, laboratory methods, and experimental design will be provided. Students will give oral presentations in a peer group environment and will prepare a written dissertation on the project.**

   (4) Please advise what technologies (if any) will be required to support the teaching and learning practices.

   **Laboratory facilities with biological sample preparation facilities and physical measurement instruments will be required.**

   (5) Please outline what steps have been taken to ensure that any technologies to be used are readily available to staff and students.

   **All are available within the School of Physics. Facilities have been acquired through various funding sources including ARC and NHMRC funding.**

   (6) Please indicate whether the unit is the outcome of a school, course or other review.

   **The unit has been offered in previous years. It is not being offered as an outcome from a review.**

   (7) Please advise whether the unit utilises any material from existing units. If so, please provide details.

   **Unit does not utilise material from existing units.**
Please advise whether the unit is to be offered within standard semester dates. (If it is not, please attach a proposal form for a non-standard semester unit.)

Unit will be offered within standard semester dates.

Please advise whether lecture outline has been provided.

No lectures are involved.

2. Demand

(1) What are the estimated annual enrolments?

One or two students per year

(2) How has the estimate in (1) been arrived at?

Estimate is based on trends over previous 10 years.

(3) From which other units are students likely to move?

None

3. Assessment

(1) Please advise how many examinations there will be for the unit and how long each will last. (Note: By Academic Council R18/94 the Examinations Office administers only standard examinations of 2 or 3 hours duration).

No examinations.

(2) If you do not propose to use more than one means of assessment for this unit (as recommended in the University's Guidelines on Assessment [http://www.secretariat.uwa.edu.au/home/policies/assessment]), please explain the reason for this.

Assessment will be through examination of dissertation and oral and written defence of dissertation.

4. Grading Schema for Unit

(1) Schools are required to ensure that final results for units in courses at all levels be produced as both percentage marks and letter grades wherever possible. However, a number of categories of unit are exempt from this requirement. The following exemptions categories are pertinent for this checklist.

(i) units where the involvement of external assessors makes it difficult to compare students' performance in an equitable manner and provide appropriately graded results for the units (for example, in-country units, cross-institutional enrolments and practicum units);

(ii) units involving group activity where the contribution of individual students cannot be distinguished (for example, participation in the University Chorale/Orchestra compulsory field tours);

(iii) specific skill-acquisition only units, which may be taken to be completed merely by attendance and participation (for example, use of medical equipment, legal skills such as negotiation and mediation).

(2) Please indicate if it is intended that the result for the unit be recorded as an ungraded pass or ungraded fail only.

NO (Please delete as appropriate)

(3) If the answer is YES please indicate into which of the categories of exempt units listed above the unit belongs.
5. **Resource-related matters**

(1) Please advise whether all the costs of the unit (e.g. including, if appropriate, those associated with teaching at the Albany Centre such as Library/computer software resources) will be met from School resources or whether the proposal is the subject of application for other funding (e.g. University Initiatives Fund).

**All costs will be met from School resources.**

(2) Please indicate whether the school intends to suppress another unit to release resources for this one.

**School does not intend to suppress another unit to release resources for this one.**

(3) Please name the staff members who are able to teach the unit.

**A/Prof Tim St Pierre, Dr Ralph James, A/Prof Roger Price, A/Prof Marti Ebert, Dr Leonard Wee, Dr Sean Geoghegan, Dr Eliza Bovell, Dr Sara Hackett**

(4) Please confirm that you have attached a completed Library Consultation Form.

**See attached**

(5) Will the introduction of this unit give rise to any accommodation needs other than standard lecture theatres, tutorial rooms or laboratory space (e.g. office space, new kinds of laboratory space) which cannot be met from the School’s/Faculty’s existing space allocation? Please ensure that your understanding is consistent with that of the Dean.

**No**

If YES, please confirm that you have attached a completed Accommodation Planning Form ([http://www.secretariat.uwa.edu.au/home/policies/courseunit/proposals](http://www.secretariat.uwa.edu.au/home/policies/courseunit/proposals)).

(6) Will there be any ancillary student fees/charges associated with this unit? If so, please confirm that you have submitted details of these to the Dean.


**No**

6. **Consultation**

Please provide details of the consultations you have had with various groups and individuals during the development of this proposal, including the following:

(a) heads of schools in cognate areas, which may have an interest in the unit content;

Since this is effectively a unit that has been in existence for 10 years (only new in the sense that it is new to the handbook this year) no new consultation has been carried out.

(b) students and graduates;

Some Biophysics undergraduate students have shown an interest in studying for Honours in Biophysics next year.

(c) employers and/or employer groups and professional bodies;

No discussion

(d) other universities in WA which teach similar units;

No discussion

(e) other leading universities in Australia or overseas which teach similar units.

Discussions were held with Prof Hans Coster several years ago. He supported the concept.
7. **Information Flow**

Please confirm, by ticking the boxes and entering the date of action, that you have forwarded a copy of this proposal, either in hard copy or electronically, to:

- The Deans of all faculties involved, either through offering the unit in their degrees, or through resourcing your school.
  
  Faculty of ___________________________ □ Date __________
  Faculty of ___________________________ □ Date __________
  Faculty of ___________________________ □ Date __________

- The Head of any school which teaches in a cognate area (specify below).
  
  School of ___________________________ □ Date __________
  School of ___________________________ □ Date __________
  School of ___________________________ □ Date __________

- The Librarian ___________________________ □ Date __________

8. **Confirmation by Head of School**

I confirm that the process leading to the proposal for the introduction of

BIO PHYSICS HONOURS RESEARCH PROJECT

(Name of new unit)

has included appropriate consultation with all other schools, both internal and external to the faculty, with a potential interest in the proposed unit and that the proposed unit will not overlap significantly with any existing unit.

Have any objections to this proposal been raised during the consultation process?

☐ Yes  ☐ No

(If yes, please attach details of objection and response)

Signature of Head

________________________

School of

________________________

Academic Secretariat
April 2008
(New_Unit_Checklist)
Biophysics Honours (MJ-BIOPH)

Prerequisites

9.2.8A.12 Students must have achieved an average of at least 65 per cent in the Level 3 units contributing to a major in Biophysics or Physics.

Programme Structure

9.2.8A.13 The programme comprises—

(a) a dissertation to the value of 24 points; the dissertation units in Table 9.2.8Ae Biophysics Honours Core Units—36 points:

and

(b) all coursework units to the value of 12 points chosen from in Table 9.2.8Ae (Biophysics Honours Core-Units)—24 and other units, in consultation with the Honours co-ordinator points.

Table 9.2.8Ae—Biophysics Honours Core Units

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<th>Course</th>
<th>Points</th>
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<tr>
<td>BIOP74XY</td>
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Table 9.2.8Aeg—Biophysics Honours Core-Units

All units have a value of six points unless otherwise stated

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<td>PUBH8753</td>
<td>Biostatistics I</td>
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<td>Biostatistics II</td>
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<td>Microscopy and Microanalysis Part 1</td>
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<tr>
<td>SCIE3301</td>
<td>Microscopy and Microanalysis Part 2</td>
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</table>
The University of Western Australia

LIBRARY CONSULTATION FORM

This form is for use by those preparing proposals for new units, or new honours courses (if not made up of units). As soon as it is possible to identify the content of a proposed new unit or honours course in sufficient detail for the purposes of assessment of the adequacy of Library holdings, the form should be forwarded to the Librarian with an outline of the proposed content of the new unit/course. The Librarian will complete and return the form to the sender, who should then attach it to the final proposal submitted to the Faculty Board.

To be completed by the proposer

Faculty: Life and Physical Sciences
School: Physics
Contact Name: Associate Professor Tim St Pierre
Extension: 2747
Email address: stpierre@physics.uwa.edu.au

Name of new unit/honours course: BSc (Biophysics Hons)

To be completed by the Librarian

1. Assessment of current collection

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2. Cost of additional material ($)

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<td>Annual</td>
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</tbody>
</table>

3. Comments:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Signature _____________________________ Date _______________________

To be completed by the appropriate Dean

I have noted the above assessment and comments. ☐

Name ___________________________ Faculty ___________________________ Date ____________

Sept 2002

Lib_Consult_Form.doc