

SECTION 1: ACADEMIC BOARD COURSE PROPOSAL

PART 1: OVERVIEW OF PROPOSAL

Faculty: Pharmacy

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Date course approved by Faculty: 23/3/2007

1.1.1. Type of proposal: New

Amended

Deletion

Please note if the proposal is changing the course name, for example Bachelor of ABC to Bachelor of AB (C) then this is a NEW course.

For deletion of a course please complete Part 1, and Part 2 items 1.2.1, 1.2.2, 1.2.9 and 1.2.11.

1.1.2. Type of course: Undergraduate

Postgraduate Coursework

Postgraduate Research

Other (provide details)

1.1.3. Name of Award course(s)

Name of Amended Award course/s: Bachelor of Pharmacy

1.1.4. Abbreviated name

BPharm

1.1.5. Date of introduction or deletion

Introduced: Year 2008 Semester 1

1.1.6. Availability to students

Commonwealth supported students Full-time

Part-time

Fee-paying local students Full-time

Part-time

Fee-paying international students Full-time

Research Training Scheme (Postgrad. Research students only)

SECTION 1: ACADEMIC BOARD COURSE PROPOSAL

PART 2: DETAILS FOR ASSESSMENT OF PROPOSAL

1.2.1 Purpose of the proposal

The purpose of this proposal is to amend the current Bachelor of Pharmacy (BPharm) course. The amended course will also incorporate the existing Bachelor of Pharmacy (Rural) degree, which will be deleted. The restructured degree is designed to meet the demands of the changing Pharmacy profession. The new curriculum will place more emphasis on integrating and/or aligning the teaching across the three disciplines of Pharmacy and provide a flexible final semester in the final year allowing increased opportunity for research in the Honours stream and extended rural, industrial or international placements.

1.2.2 Justification for proposal

In 2006, and in consultation with the profession, the Faculty of Pharmacy conducted a substantial review of its BPharm curriculum, with a view to ensuring that our graduates are well-prepared for the technological developments and changing practice of Pharmacy over the coming decade. As a result of this review several changes are needed to the Bachelor of Pharmacy curriculum. These changes will ensure that the Faculty continues to maintain its position as a leading provider of Pharmacy education in Australia and internationally.

The primary educational aim of the Faculty is to produce graduates with the appropriate knowledge, skills and behaviours which will enable them to participate effectively in the community and contribute significantly to its health and welfare.

In particular, graduates are expected to be well prepared for participation in pharmacy in a wide range of capacities, with the potential to exercise leadership with the profession, as well as more widely, in the healthcare arena. The emergence of new roles to be filled by pharmacists in community practice, hospital practice, industry and research, led to changes in requirements for education and training of students.

The overall aims of the Bachelor of Pharmacy curriculum are:

- To produce graduates equipped with the knowledge, skills and behaviours which, with relevant additional experience, will enable them to become leading practitioners in any area of pharmacy and pharmaceutical sciences.
- To produce graduates able to assume prominent roles in all aspects of the pharmacy profession, and who are able to provide leadership in the incorporation of both established and innovative cognitive services and evidence-based practice.

The new curriculum approaches the teaching of pharmacy from a more integrated perspective, rather than the previous discipline based approach. It is structured by themes and underpinned by a detailed set of learning outcomes which describe the knowledge, skills and attitudinal milestones to be achieved each year and by the time of graduation

The major changes in Year 1 and 2 will be:

- a. the integration of maths and stats from Year 1 into units of study across Years 1, 2 & 3) where the applications will be immediately apparent to students
- b. the replacement of Concepts in Biology by Molecular Biology and Genetics (MBLG1001) to incorporate the future role of genomics in health care and provide a platform for teaching pharmacogenomics
- c. New combined Biochemistry/Physiology/Pharmacology Units of Study in Year 2

In Years 3 and 4 of the curriculum, a more integrated approach to the teaching of pharmacy will be particularly significant, based predominantly around body systems and integrated across all of the disciplines. This change has been undertaken as a result of student feedback indicating that students have difficulty relating all disciplines to the practice of pharmacy.

The new curriculum has also been developed to provide opportunities for Pharmacy students to participate in the inter-professional learning programs that are currently being developed across the Faculties of Health.

In addition to integrated teaching the significant advantage of the new curriculum is the improved flexibility introduced in to the final year of the program allowing high-achieving students to undertake a range of specialist placement options and participate in international exchange programs. In addition to the standard BPharm program, these specialist options will include an increased Advanced (Honours) component.

The Advanced (Honours) program currently consists of 24 credit points (CP) (6 CP of research methods in Year 4, Semester 1 and 18 CP of research project in Year 4 Semester 2). The new curriculum will increase the research project to 24 CP in Semester 2, making the total Honours component worth 30 CP. The increased credit points in Semester 2 will provide the opportunity for Advanced students to undertake their research component internationally and/or in an industrial laboratory. The increased flexibility of the final semester will also provide the opportunity for high achieving students to participate in international exchange programs, block placements in industry or the healthcare sector. This is consistent with Goals 3 and 4 of the University of Sydney Learning and Teaching strategic plan, 2007-2010.

The current Bachelor of Pharmacy (Rural) program will cease to be offered (from the 2008 intake) in favour of incorporation of rural health care as an integral part of the new curriculum in the Bachelor of Pharmacy. A 4th year UoS on indigenous health will be introduced for students undertaking the rural major. In addition there will be the option for students to spend the final semester of year 4 on rural placement, supported by the University Department of Rural Health (UDRH) (as the BPharm (Rural) students do at present). Since it is known that one of the main predictors for health graduates to practice in rural areas is for the person to have originated in a rural area, the Faculty of Pharmacy Rural Entry scheme will be maintained. Special entry provisions will ensure that students from rural areas will be offered entry to the Bachelor of Pharmacy with a UAI of up to 5 points lower than the official UAI (as is currently the case for entry to the BPharm (Rural) program). This will ensure that the Faculty continues to maintain its prominent role in the provision of rural pharmacists.

The proposed changes will also encourage students with a genuine interest in research to undertake Honours whilst providing challenging alternative for other high achieving students to explore different aspects of the pharmacy profession.

1.2.3 Benchmarking, market research and analysis

(i) Benchmarking:

This is an amendment to the currently existing Bachelor of Pharmacy degree. In undertaking this curriculum review the Faculty has consulted widely with all stakeholders including future employers in all disciplines of pharmacy and current students. Although there are a number BPharm degrees currently offered throughout Australia, the Faculty of Pharmacy at The University of Sydney is currently a leading provider of Pharmacy education in Australia. The proposed course amendments will ensure that the University of Sydney continues to maintain its position at the forefront of Pharmacy education both nationally and internationally.

(ii) Market research and analysis:

The increased flexibility in the final year of the degree program will permit the Faculty to promote the opportunity for students to study specialist areas of pharmacy.

(iii) **Summary table of competitive offerings to proposed award course:**

Institute	Competitive Offering	Additional information
Charles Sturt University	BPharm	
Monash University	BPharm	
La Trobe University	BPharm	
University of Queensland	BPharm	
James Cook University	BPharm	
University of Tasmania	BPharm	
University of South Australia	BPharm	
Curtin University	BPharm	

(iv) **Estimated Student Demand**

Estimated Student Demand	2008	2009	2010
Commonwealth-supported	199	199	199
Local fee-paying	30	30	30
International fee-paying	30	30	30
Estimated Total EFTSL	259	259	259
Lowest EFTSL for which course would be run			

Estimated Full-time and Part-time Students	2008	2009	2010
Estimated number of Full-time students	259	259	259
Estimated number of Part-time students	0	0	0

Impact on students currently enrolled:

Currently enrolled students will continue to progress as per the existing requirements of the current degree program.

Enrolment Quotas:

Will quotas be set for the proposed award course or for any units of study within the award course? The quota for the amended program will remain the same as the current program

For local fee-paying students

Yes Please specify The quota for local fee-paying students will remain the same as for the current course.

No

For international fee-paying students

Yes Please specify The quota for international fee-paying students will remain the same as for the current course.

No

1.2.4 Consultation and External References

As part of the Faculty of Pharmacy curriculum review an extensive and on-going consultative process was undertaken. The curriculum review panel consisted of two members of staff from each of the disciplines (Pharmaceutical Chemistry, Pharmacy Practice and Pharmaceutics), the Director of the Pharmacy Education Unit and the Associate-Dean (Undergraduate). The curriculum review document was regularly referred back to the disciplines for comments at

various stages of the process. In addition to the panel, several inter-disciplinary working parties were formed at various stages to review various aspects of the curriculum. The learning outcomes document and the course proposal were sent to members of the Profession (listed below). The Faculty will continue to work collaboratively with all stakeholders as the curriculum is developed further.

Consultees	Date of consultation	Method of consultation	Type of supporting evidence provided
Dean of Science, A/Dean (L&T) & staff of Biology.	6/2/2006	meeting	
Dr Elizabeth May (Biology)	1/11/2006	meeting	Attached email
Dr Sandra Britton & Head of School A/Prof Don Taylor (Maths & Stats)	15/1/2007 22/1/2007	meeting	Attached email
Head of School A/Prof Arthur Connigrave & Prof Mitchell Guss (MMB)	22/3/2007	meeting	Attached email
Physiology	30/3/2007	meeting	
Pharmacology	20/4/2007	meeting	
Students	27/10/2006	Faculty retreat	
The Discipline of Pharmaceutical Chemistry	ongoing		
The Discipline of Pharmaceutics	ongoing		
The Discipline of Pharmacy Practice	ongoing		
The Pharmaceutical Society of Australia	July 2006 April 2007	Sent a copy of the learning outcomes document in July 2006 and then the course proposal in April 2007.	
The Pharmacy Board of NSW	July 2006 April 2007	Sent a copy of the learning outcomes document in July 2006 and then the course proposal in April 2007.	Reply received 16 August 2006
The Pharmacy Guild of Australia	July 2006 April 2007	Sent a copy of the learning outcomes document in July 2006 and then the course proposal in April 2007.	
Society of Hospital Pharmacists	July 2006 April 2007	Sent a copy of the learning outcomes document in July 2006 and then the course proposal in April 2007.	See attached response.
Pharmaceutical Defence Ltd (NSW)	July 2006 April 2007	Sent a copy of the learning outcomes document in July 2006	

		and then the course proposal in April 2007.	
Salaried Pharmacists Association	July 2006 April 2007	Sent a copy of the learning outcomes document in July 2006 and then the course proposal on 2 April 2007.	
Pharmacy Alumni Association	July 2006 April 2007	Sent a copy of the learning outcomes document in July 2006 and then the course proposal in April 2007.	
National Prescribing Service	July 2006 April 2007	Sent a copy of the learning outcomes document in July 2006 and then the course proposal in April 2007.	Reply received 16 August 2006
Victorian College of Pharmacy Monash University	July 2006	Sent a copy of the learning outcomes document in July 2006.	See attached response.
School of Pharmacy, Murdoch University	July 2006	Sent a copy of the learning outcomes document in July 2006.	

The Planning Office was not consulted as there is no change to the total estimated student load.

Library resources are not affected since there is no predicted shift in the total estimated student load.

Timetabling and IT resources are similarly not affected as there is no change in estimated student load.

The International Office was not consulted as the course amendments have no impact on International Student Administration Requirements.

1.2.5 Course structure

The current mode of delivery and course requirement of 192 credit points will not change.

The major changes proposed involve:

- (i) Integration of mathematics and statistics in relevant UoS across Years 1 and 2.
- (ii) Replacement of Concepts in Biology (BIOL1001) Year 1 with Molecular Biology (MBLG 1001).
- (iii) Integrated teaching of biomedical sciences in Year 2
- (iv) Integrated teaching of Pharmaceutics, Medicinal Chemistry, Pharmacy Practice and Pharmacology in Year 3
- (v) Greater flexibility providing several options to students in final semester of Year 4 i.e.
 - (a) Standard program
 - (b) Advanced (Honours) program
 - (c) Rural Major involving a semester long rural placement
 - (d) International Major involving a semester long international exchange
 - (e) Industrial Major involving semester long industrial placement

Award Course	Length of candidature (years)	Type of Enrolment	
		Full-time	Part-time
BPharm	Minimum	4	n/a
	Maximum	10	n/a
BPharm (Hons)	Minimum	4	n/a
	Maximum	n/a	n/a

- (b) Minimum credit points required for completion of qualification: 192 credit points.
- (c) Mode of delivery: Face-to-face teaching Distance education
Offshore delivery
- (d) Does the course involve clinical or industrial placement/experience?
Yes No
If Yes, please provide details

As with the current program, the amended program will involve a number of compulsory placements. Currently, these placements are predominantly in community and hospital pharmacies, which are feeling the pressure due to the increase in the numbers of Pharmacy students not only in the Sydney program but also from other interstate pharmacy degrees. The amended program will offer increased opportunities for placements in rural locations through the URDH and in industry, which will assist in relieving the pressure on the metropolitan hospital and community pharmacies.

The amended program will also allow the students to participate in the inter-professional learning (IPL) initiatives that are currently being developed within the Faculties of Health.

Current staff, including proposed new academic staff appointments across the three Pharmacy disciplines (Pharmaceutical Chemistry, Pharmaceutics and Pharmacy Practice), together with a new Chair of Pharmacy Management will ensure that the Faculty can deliver high quality education that reflects the expanding role of Pharmacists in the coming decade.

As a result of expansion of teaching and learning across the Faculty, as well as changes to the existing and projected educational needs of our graduates, a Pharmacy Education Unit (PEU) has been established in the Faculty. The Unit has three full-time staff: Associate Professor Greg Ryan (Director), Ms Kathryn Bartimote-Aufflick (Associate Lecturer in Pharmacy Education) and Mr Jim Woulfe (Educational Designer).

The Unit's goal is to maintain and build on the Faculty's significant achievements to date, further promoting excellence in learning and teaching across the Faculty and enhancing its reputation as a leader in pharmacy education research, development and practice. To achieve this goal, the Unit is engaged in the following range of activities:

1. promoting the scholarship of teaching, and research in learning and teaching
2. providing practical one-on-one support to academic staff, especially Unit of Study coordinators, in improving the quality of teaching, learning and student assessment
3. providing encouragement to and support of innovative approaches to teaching and learning
4. more broadly, provide assistance to the Associate Dean (Undergraduate) in relation to the Faculty's quality assurance processes
5. in partnership with the Institute for Teaching and Learning, establish an ongoing professional development program for Faculty staff (including newly appointed staff and casual tutors) which includes workshops, seminars and individual support, to encourage and assist academic staff to further develop teaching performance
6. assisting the ongoing review and development of the Faculty Teaching and Learning Plan
7. the development of instructional processes and materials
8. providing leadership to the utilisation of information and communication technologies, multimedia and on-line and flexible learning approaches (in particular mixed-mode teaching through WebCT)
9. providing assistance with the development and review of programs and Units of Study
10. the assembly and review of teaching performance information

The Faculty places a high value on the provision of a strongly positive experience for its students. The establishment of the PEU reflects the Faculty's commitment to supplying students with state-of-the-art, flexible teaching and learning methods. A key responsibility of the Unit will be to coordinate the development and implementation of the new BPharm program.

Year 1			
Semester 1		Semester 2	
UoS	CP	UoS	CP
Chemistry A	6	Chemistry B	6
Human Biology	6	Molecular Biology	6
Foundations of Pharmacy	6	Social Pharmacy	6
Basic Pharmaceutical Sciences	6	Physical Formulation 1	6

Year 2			
Semester 1		Semester 2	
UoS	CP	UoS	CP
Physiology & Pharmacology A	6	Physiology & Pharmacology B	6
Drug Discovery & Design A	6	Drug Discovery & Design B	6
Microbiology & Infection	6	Physical Formulation 2	6
Therapeutic Principles	6	Introduction to Pharmacy Practice - (cardiovascular/respiratory/ endocrine)	6

Year 3			
Semester 1 Integrated UoS		Semester 2 Integrated UoS	
	CP		CP
Unit 1: Theme – neurology I - CNS	6	Unit 5: Theme – dermatology & special senses	6
Unit 2: Theme – oncology/immunology	6	Unit 6: Theme – musculoskeletal/degenerative	6
Unit 3: Theme - gastroenterology	6	Unit 7: Theme – renal/urogenital/reproductive	6
Unit 4: Theme – neurology II – mental health	6	Unit 8: Theme – multiple systems pathology - HMR	6

Year 4			
Semester 1		Semester 2	
UoS	CP	UoS	CP
Integrated Pharmacy Practice – Quality Use of Medicines	12	Clinical Placement	12
Pharmacy Management	6	Therapeutics in Practice	6
*Research Methods	6	Advanced Pharmaceutical Sciences	6
#Indigenous Health	6	¹ Research Project	24
		² International Exchange Program	24
		³ Industrial Placement	24
		⁴ Rural Placement	12
		⁴ Rural & Remote Health Care	6
		⁴ Therapeutics in Rural Practice	6

* To be taken by Advanced (Honours) students only in place of Pharmacy Management

To be taken by students undertaking the Rural Major in place of Pharmacy Management

1. Taken by students in Advanced (Honours) program in place of all other UoS
2. To be taken by students in the Academic Exchange Program in place of all other UoS
3. To be taken by students undertaking the Industrial major in place of all other UoS
4. To be taken by students undertaking the Rural major in place of all other UoS

It is envisaged that the number of students in the Honours program will be reduced as per current discussions in the Faculty regarding the sustainability of the program in its current form. The program will be focussed at students who have a genuine interest in research and pursuing a research career.

Numbers in the industrial program are likely to be small and will also be limited by the number of placements available.

Students in the exchange program will be required to get approval for the UoS that they undertake as part of their exchange.

1.2.6 Assessment procedures

No significant change to current assessment procedures which vary depending on the nature of the unit of study. Assessments will be aligned with Unit of Study learning outcomes and learning activities and will include the use of both summative and formative assessment.

Students will be assessed mainly by Faculty based examiners. Assessment of Clinical skills is carried out by preceptors in relevant UoS, however this forms only a small contribution of the final mark (5-10%).

1.2.7 Student workload

In line with Academic Board Resolution 370/03 the credit point load for units of study will be six (6) credit points. A normal semester load of 24 credit points will therefore equate to the effort expected of a full-time student studying 36-48 hours per week. A credit point will notionally equate (as appropriate to the discipline concerned) to:

- 1.5 – 2 hours per week of student effort consisting of:
 - 0.5 - 1 hours class time.
 - 1 hour of work outside of class

(a)

Expected Workload	Total Time Expected (per credit point/semester)
Lectures	5.5
Tutorials	3
Practical experience	4
Independent study	4
Reading and work for assessment	4
Others (please specify):	

(b) *Provide an indication of how the academic course load including the weight given to any dissertation component compare with other similar course loads in the faculty/college/university*

The only dissertation component of this award course is that which occurs where students undertake study at the Honours level and potentially in the Industrial Major. In such instances the load will be comparable with the load that occurs in other integrated Honours programs in proportion to the number of credit points of the research component.

(c) *What load for HECS and student load purposes should be given to each of the constituent parts or units making up the award course?*

Load should be apportioned on the basis that 48 credit points equals 1 EFTSU.

1.2.8 Attributes of graduates

Consistent with the University of Sydney generic attributes, graduates of the BPharm:

- Will be able to create new knowledge and understanding through the process of research and inquiry.
- Will be able to use information effectively in a range of contexts.
- Will be able to work independently and sustainably, in a way that is informed by openness, curiosity and a desire to meet new challenges.
- Will hold personal values and beliefs consistent with their role as responsible members of local, national, international and professional communities
- Will recognise and value communication as a tool for negotiating and creating new understanding, interacting with others, and furthering their own learning.

As a consequence, BPharm graduates will have developed a stance towards knowledge (scholarship), the world (global citizenship) and themselves (lifelong learning) that sets them apart from other graduates in their lives and work.

In particular, BPharm graduates will be capable of fulfilling the following professional roles¹, at a beginner level:

- Practitioner/Care Giver
- Decision Maker
- Scientist
- Manager/Leader
- Communicator
- Educator/Teacher
- Lifelong Learner
- Public Health Promoter

BPharm GOALS

- To produce graduates equipped with the knowledge, skills and behaviours which, with relevant additional experience, will enable them to become leading practitioners in any area of pharmacy and pharmaceutical sciences.
- To produce graduates able to assume prominent roles in all aspects of the pharmacy profession, and who are able to provide leadership in the incorporation of both established and innovative cognitive services and evidence-based practice.

PART A: BPharm Curriculum Themes and Graduate Learning Outcomes

The graduate learning outcomes that will demonstrate student achievement of these goals have been clustered under four curriculum themes:

- **BASIC AND PHARMACEUTICAL SCIENCES**
- **PROFESSIONAL PRACTICE IN PHARMACY**
- **PERSONAL AND PROFESSIONAL DEVELOPMENT**
- **SOCIETY AND PHARMACIST**

¹ Based on *International Pharmaceutical Federation* – “Statement of Policy on Good Pharmacy Education Practice” (2000)

THEME: BASIC AND PHARMACEUTICAL SCIENCES (BPS)

Applies a sound understanding of the scientific basis of the use of medicines

This theme encompasses

- scientific method and approaches to the discovery and use of knowledge
- the content areas of human physiology and pathophysiology, microbiology, pharmacology, chemical sciences, mathematics and statistics, medicinal chemistry, drug delivery, pharmacokinetics and pharmacogenomics, drug discovery and analysis

The BPharm graduate:

- *Critically examines scientific evidence – both quantitative and qualitative – in order to arrive at evidence based conclusions*
- *Takes opportunities to engage in research and scientific endeavour*
- *Demonstrates an understanding of the body as a complex adaptive biological system*
- *Identifies sources of drugs, the way they are discovered, purified, characterised and analysed, and their physico-chemical properties*
- *Demonstrates a working understanding of fundamental concepts and techniques of chemistry necessary for understanding drug delivery, drug action and therapeutics*
- *Demonstrates an understanding of the mechanisms of action and the properties drugs display as biologically active molecules in living systems*
- *Demonstrates an understanding of design, manufacture and performance of drug dosage forms*
- *Critically evaluates the inter-relationship between formulation, drug delivery and therapeutic effectiveness*
- *Applies an understanding of basic and applied sciences to the management and solution of pharmaceutical and clinical problems*
- *Applies appropriate numeracy skills – understanding and meaning of numbers - calculus and statistics and arithmetic*
- *Demonstrates ability to deal with the concept of uncertainty – devising alternatives which take account of qualifying, affording and constraining circumstances*

THEME: PROFESSIONAL PRACTICE IN PHARMACY (PPP)

Provides appropriate pharmaceutical services in a range of contexts

This theme encompasses

- Supply of medicinal products together with advice
- Provision of medicine information and review services

The BPharm graduate:

- *Communicates effectively with patients, families, carers and other health professionals*
- *Provides prescription medicines and appropriate advice and counselling*
- *Provides over the counter products and using endorsed professional protocols*
- *Prepares simple extemporaneous products to appropriate standards of safety and quality*
- *Evaluates evidence for safety, quality, efficacy and cost effectiveness of prescriptions and other orders for medicines*
- *Advises other health care professionals about medicines and their use*
- *Applies a systematic reasoning process to address a range of health and drug-related problems that present in Pharmacy*
- *Provides patient education in relation to medicines and therapeutic and monitoring devices*
- *Provides advanced pharmacy cognitive services such as Home Medicines Review and Disease State Management*
- *Demonstrates an understanding of management and organisational theories and their application in different professional practice in pharmacy settings*

THEME: PERSONAL AND PROFESSIONAL DEVELOPMENT (PPD)

Demonstrates and develops personal and professional knowledge, standards and ethical behaviours

This theme encompasses

- Developing as an individual in the concept of professionalism as manifest in attitudes and behaviours
- Developing skills to enable continuing development as a practising pharmacist

The BPharm graduate:

- *Demonstrates legal and ethical behaviour*
- *Applies appropriate principles and reasoning skills to address ethical dilemmas in professional practice*
- *Demonstrates appropriate attitudes and values in personal and professional dealings and business practice*
- *Maximises patient safety and manages medicine error*
- *Works effectively and cooperatively as a member of a learning group/team*
- *Works effectively and cooperatively as a member of an interprofessional clinical team to provide high quality patient care*
- *Recognises and manages own personal, physical and emotional needs*
- *Engages in continuous reflection and takes responsibility for personal and professional development*
- *Demonstrates the ability to learn independently and take responsibility for own learning*
- *Demonstrates skills in time management, goal and priority setting, self-evaluation*
- *Learns from own mistakes and the mistakes of others*

THEME: SOCIETY AND PHARMACIST (SP)

Contributes to the health of the community

This theme encompasses the pharmacist role in health care systems, public health policy, duty of care to wider public and wider health advocacy

The BPharm graduate:

- *Demonstrates an understanding of the health care system in Australia and the roles of the pharmacist within it*
- *Demonstrates an understanding of the factors informing health policy including epidemiological and economic issues*
- *Demonstrates an understanding of the role of the pharmacist in promoting public health*
- *Demonstrates an appropriate duty of care to the wider public*
- *Understands and applies the principles of pharmacoepidemiology*
- *Promotes 'best practice' in the pharmacotherapeutic management of drug dependence*
- *Stores, supplies and disposes of medicines in a safe and an environmentally appropriate manner*

An example of the link that will be made between University of Sydney generic attributes and BPharm learning outcomes:

Research and Inquiry. *Graduates of the Faculty of Pharmacy will be able to create new knowledge and understanding through the process of research and inquiry.*

- Critically examines scientific evidence - both quantitative and qualitative - in order to arrive at evidence based conclusions eg is able to:
 - critically evaluate, using accepted or established criteria, the quality of the methods, results, discussion and conclusions as published in scientific peer-reviewed Pharmacy journal articles

- Takes opportunities to engage in research and scientific endeavour, eg is able to:
 - design and conduct experiments to investigate ill-defined problems in the Pharmaceutical Sciences and in Pharmacy practice
- Demonstrates understanding of the concept of uncertainty, eg is able to:
 - devise alternatives which take account of qualifying, affording and constraining circumstances
- Identifies sources of drugs, the way they are discovered, purified, characterised and analysed, and their physico-chemical properties

Information Literacy. *Graduates of the Faculty of Pharmacy will be able to use information effectively in a range of contexts.*

- Applies an understanding of basic and applied sciences to the management/solution of pharmaceutical and clinical problems
- Critically evaluates published medicine information
- Evaluates evidence for safety, quality, efficacy and cost effectiveness of prescriptions and other orders for medicines
- Advises other health care professionals about medicines and their use
- Applies a systematic reasoning process to address a range of health and drug-related problems that present in Pharmacy, eg is able to:
 - Summarise the problem presentation
 - Conduct a comprehensive medical and medicine history
 - Identify and prioritise actual and potential drug-related problems
 - Generate and test a range of alternative hypotheses
 - Apply an understanding of the basic and applied sciences to pharmaceutical care in order to optimise health outcomes
 - Reformulate the problem/s in light of new information
 - Make timely, informed, rational and evidence-based decisions, including in circumstances of uncertainty
 - Incorporate patient perspectives about their condition and its treatment
 - Formulate and safely implements targeted interventions and therapeutic plans in line with the Quality Use of Medicines framework
 - Document and plan interventions accurately and concisely
 - Monitor and review patient goals, progress and outcomes

Personal and Intellectual Autonomy. *Graduates of the Faculty of Pharmacy will be able to work independently and sustainably, in a way that is informed by openness, curiosity and a desire to meet new challenges.*

- Maximises patient safety and manages medicine error
- Recognises and manages own personal, physical and emotional needs eg is able to:
 - Demonstrate ability to critically reflect on own role within complex interpersonal situations
 - Demonstrate capacity to align personal and professional health promotion practices
 - Identify a range of strategies that address sources of workplace stress
- Engages in continuous reflection and takes responsibility for personal and professional development, eg is able to:
 - maintain a reflective journal encompassing a range of professional and learning experiences
 - write in a reflective style in relation to open-ended tasks
- Demonstrates the ability to learn independently and take responsibility for own learning, eg is able to:
 - Define ongoing learning goals and how they will be protected from competing interests/conflicting alternatives
 - Self-motivate to accomplish learning tasks
 - Select, elaborate and organise information for deep processing
 - Successfully apply a range of personal learning strategies in the exploration of complex pharmacy situations
 - Justify standards or goals against which to compare personal learning performance
 - Personally initiate and direct own efforts to acquire knowledge and skill

Ethical, Social and Professional Understanding. *Graduates of the Faculty of Pharmacy will hold personal values and beliefs consistent with their role as responsible members of local, national, international and professional communities*

- Applies appropriate principles and reasoning skills to address ethical dilemmas in professional Pharmacy practice, eg is able to:
 - Explain the dimensions of an ethical dilemma and outline the consequences of different courses of action
 - Use ethical principles and a code of ethics in the processes of moral reasoning
 - Justify ethical decision making within a defined decision-making model
 - Apply ethical theory and bioethical theory to address ethical dilemmas in complex, ill-defined practice situations
- Demonstrates appropriate attitudes and values including, altruism, responsibility, compassion, empathy, accountability, honesty and integrity in personal and professional dealings and business practice, eg, is able to:
 - Justify ethical decisions made using an appropriate framework
 - Justify the use of an appropriate attitude and value framework as the basis for patient care
 - Behave in an ethical manner i.e., to act in patients best interests
 - Demonstrate accountability for personal actions, i.e., holds oneself liable for outcomes
 - Demonstrate an attitude to life-long learning that acknowledges the importance of Continuing Professional Development
 - Create a personal development plan
- Demonstrates an understanding of the health care system in Australia and the roles of the pharmacist within it
- Demonstrates an understanding of the factors informing health policy including epidemiological and economic issues
- Demonstrates an understanding of the role of the pharmacist in promoting public health
- Demonstrates an appropriate duty of care to the wider public
- Understands and applies the principles of pharmacoepidemiology

1.2.9 Transitional arrangements (for continuing students)

Last year of student intake under existing Resolutions:	Local students	2007
	International students	2007

Provisions in place for students enrolled under existing Resolutions:

Existing Units of study will remain available to current students who have a non-standard progression for 2 years after the last official enrolment in those UoS.

1.2.10 Course administration

Course to be administered by the following Faculty: Pharmacy

- (a) Is there **shared teaching** with other Faculties?

Yes Please see below on provision of additional information.

No

If yes,

Faculty	Percentage of EFTSL
Managing Faculty: Pharmacy	76.5
Collaborating Faculties: Science - Mathematics - Chemistry - Biology - Molecular and Microbial Biosciences	14.1
Medicine - Physiology - Pharmacology	9.4

- (b) Since the majority of UoS in the Bachelor of Pharmacy degree are compulsory, i.e. they are undertaken by all students, the allocation is based on the number of CP that will be co-ordinated and taught by the external faculties, ie those UoS in the degree program that will not have a PHAR UoS code. Compared to the current situation, there will be a slight reduction in EFTSU's allocated to the Faculties of Science and Medicine as the content will be more integrated, therefore some teaching by the external Faculties will be undertaken in UoS co-ordinated by the Faculty of Pharmacy. Allocation will be for this teaching by external Faculties will be made using the "Shared Teaching" component in FlexSiS. Consultation with all external Faculties and departments has been undertaken and is continuing as the curriculum is being developed.

- (c) Is the proposed award course part of a **con-joint venture** with another institution?

Yes No

If yes, has the Director Student Centre been consulted? N/A

1.2.11 Resolutions

- (a) Are there changes to the list of Degrees, Diplomas and Certificates conferred by your Faculty, as listed in the **Resolutions of the Senate** available in the **University Calendar**?

Yes *If yes, please complete Appendix 2.*

No

- (b) Will there be new Resolutions or changes to the existing **Resolutions of the Senate** for the proposed Coursework award course?

Yes *If yes, please complete Appendix 3.*

No

- (c) Will there be new Resolutions or changes to the existing **Faculty Resolutions** for the proposed award course?
Yes *If yes, please complete Appendix 4.*
No
- (d) Will there be changes to the academic dress due to the introduction of the proposed new award course?
Yes No

1.2.12 Quality assurance arrangements and plans

As part of the curriculum review process, the Faculty evaluated all existing units of study using the ITL USE surveys. The feedback obtained in this manner was used in the curriculum review. In 2006 the Faculty established working party on quality assurance which is responsible for ensuring that all Uos are surveyed on a regular basis and to ensure that appropriate measures are taken to address any issues identified by the surveys. All existing and new units of study will continue to be evaluated and monitored by this process.

SECTION 1 : ACADEMIC BOARD COURSE PROPOSAL

PART 3: RESOURCE IMPLICATIONS

1.3.1 Estimated Student Numbers for next three years of the award course

Estimated Student Demand	2008	2009	2010
Estimated Student Numbers	259	259	259
Estimated EFTSL	259	259	259

1.3.2 Availability of teaching and support staff

(a) *Availability of academic and support staff to deliver the proposed award course:*

The proposed changes will have no significant impact on academic and support staff levels as there is no change to the estimated student load.

(b) Strengths of the department/school/faculty:

1.3.3 Availability of teaching space, and other required facilities

The proposed changes will have no long term significant impact on teaching space or other facilities as there is no change to the estimated student load.

However, during the first 2 years of the transition period it has been identified that there will be an increased demand for laboratory space due to lab classes being taught in the first year of the new program being the same as those that are taught in Year 2 of the current program and a similar situation existing for the teaching of lab classes to Year 2 of the new program and Year 3 of the current program in 2009. This issue has been identified and employment of additional staff and the use of other laboratory space within the Faculty are currently being explored.

The addition of the newly renovated tutorial rooms in the Badham building will be sufficient to support an increased emphasis on problem-based learning in the third year of the program.

1.3.4 Availability of Library Resources

The proposed changes will have no significant impact on library resources as there is no change to the estimated student load.

1.3.5 Availability of IT and other Equipment

The proposed changes will have no significant impact on computer technology or other equipment as there is no change to the estimated student load.

1.3.6 Timetabling arrangements

The proposed award course will be offered in the following teaching period:

standard non-standard teaching
(e.g. Summer School, Winter School)

The proposed changes will have no significant impact on timetabling arrangements as there is no change to the estimated student load.

APPROVALS

Nominated Faculty Officer

Dean of Faculty (or Delegate)



Degrees, diplomas and certificates in the Faculty of Pharmacy

Degrees, diplomas and certificates in the Faculty of Pharmacy

Degrees, diplomas and certificates in the Faculty of Pharmacy

1. The degrees in the Faculty of Pharmacy shall be:
 - 1.1 Bachelor of Pharmacy (BPharm)
 - 1.2 ~~Bachelor of Pharmacy (Rural) (BPharm(Rural))~~
 - 1.2 Master of Pharmacy (MPharm)
 - 1.3 Master of Herbal Medicines (MHerbMed)
 - 1.4 Master of Philosophy
 - 1.5 Doctor of Philosophy (PhD)
2. The diplomas and certificates in the Faculty of Pharmacy shall be:
 - 2.1 Graduate Diploma in Herbal Medicines (GradDipHerbMed)
 - 2.2 Graduate Certificate in Herbal Medicines (GradCertHerbMed)



undergrad Pharm

undergrad Pharm

Bachelor of Pharmacy

1. Requirements for the Bachelor of Pharmacy

- 1.1 To qualify for the pass degree of the Bachelor of Pharmacy candidates must:
 - 1.1.1 complete successfully units of study giving credit for a total of 192 credit points; and
 - 1.1.2 satisfy the requirements of all relevant By-laws, Rules and Resolutions of the University.

2. Specialisations, Streams or Majors

2.1 The following majors will be awarded in the Bachelor of Pharmacy:

- 2.1.1 Rural
- 2.1.2 Industrial
- 2.1.3 International

3. Requirements for the honours degree (where honours is an option)

- 3.1 To qualify for the award of the honours degree candidates must complete the honours requirements published in the Faculty Resolutions relating to the course.

Bachelor of Pharmacy (Rural)

1. Requirements for the pass degree

- ~~1.1 To qualify for the award of the pass degree students must:~~
 - ~~1.1.1 complete successfully units of study giving credit for a total of 192 credit points; and~~
 - ~~1.1.2 satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.~~

2. Requirements for the honours degree

- ~~2.1 To qualify for the award of the honours degree students must complete the honours requirements published in the faculty resolutions relating to the course.~~



BPharm Resolutions

Heading 2

note

Bachelor of Pharmacy

1. Admission

- 1.1 Admissions to the BPharm course is based on:
- 1.1.1 Results of a Special Tertiary Admission Test (STAT)
- 1.1.2 NSW HSC Universities Admissions Index (UAI) or equivalent, or a tertiary studies record.
- 1.2 Under the Faculty of Pharmacy Rural Students Entry Scheme a number of places have been set aside for entry to the Bachelor of Pharmacy program for prospective rural students who meet the selection criteria approved by the Academic Board, as set out below. Details of the application process are available from the Faculty.
- 1.3 Criteria for Admission to the BPharm under the Faculty of Pharmacy Rural Students Entry Scheme.
- 1.3.1 Current NSW HSC or interstate equivalent applicants may be offered a place under the Faculty of Pharmacy Rural Students Entry Scheme if they meet all the criteria set out below:
- 1.3.1.1 The applicant's UAI is not more than five points below the UAC main round cut off mark for the year of entry.
- 1.3.1.2 Applicants must have completed at least the last four years of secondary education at a rural school (the definition of "rural" is detailed below).
- 1.3.1.3 Applicants must have had a permanent home address in a rural area for a significant period (at least four years) at any time prior to their application (the definition of "rural" is detailed below).
- 1.3.1.4 Applicants must be able to demonstrate a commitment to a career in a rural health setting. (This may include an exceptional record of involvement and achievement in community affairs at school or local community level in a rural environment).
- 1.3.1.5 Applicants are not eligible for a place under this Scheme if they have completed one full-time year (or part-time equivalent) of tertiary study. (Tertiary study refers to Diploma, Advanced Diploma, Bachelors Degree or higher qualification recognised by the University of Sydney).
- 1.3.1.6 Applicants are not eligible for a place under this Scheme if they accept an offer under any other Access and Equity Program offered by the University.
- 1.3.2 Applicants must satisfy the Special Tertiary Admissions test criterion outlined above.

Definition of "Rural"

The basis for the definition of "rural" will be the area encompassing the rural NSW Area Health Service regions, as announced by the NSW Department of Health on 16 March 1966, or the equivalent definition of rural applicable to other States. Basically, all of New South Wales is considered rural with the exception of Sydney, Central Coast, Newcastle, Wollongong, the Blue Mountains and their surrounding areas. In other states, similar definitions will apply.

2. Units of study

- 2.1 The units of study for the degree are as set out in the Faculty Handbook.

3. Requirements for the Bachelor of Pharmacy **Pass Degree:**

- 3.1 To qualify for the award of Pass degree students must:
- 3.1.1 gain a minimum of 192 credit points by successfully completing all first year, second year, third year and fourth year units of study as set out in Table 1;
- 3.1.2 satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.

4. Requirements for the honours degree

- 4.1 The degree of Bachelor of Pharmacy shall be awarded in two grades, namely, Pass and Honours.
- 4.2 ~~A weighted average mark (WAM) will be calculated for each candidate as an overall measure of performance in the degree.~~
- 4.3 ~~The degree will be awarded with the following grades:~~
- 4.3.1 ~~First Class Honours: WAM of 75 or greater with a minimum final honours mark of 85;~~
- 4.3.2 ~~Second Class Honours, division I: WAM of 70-74 with a minimum final honours mark of 80;~~
- 4.3.3 ~~Second Class Honours, division II: WAM of 65-69 with a minimum final honours mark of 75;~~
- 4.2 Except with the permission of the Faculty, candidates of more than four years standing in the degree shall not be awarded the degree with honours.
- 4.3 Except with the permission of the Faculty honours will not normally be awarded to any student with a grade of F or AF in any unit of study.
- 4.4 Honours students can progress to Second Semester Advanced only if they obtain a credit average in their first semester marks. Students who fail this requirement will go back to the Pass stream, Fourth Year Second Semester.
- 4.5 In order to be considered for the award of the University Medal, a student must obtain a WAM of 85 or greater over the entire degree, and must achieve minimum final honours mark of 90 or greater in two Advanced units of study – Research Methods and Research Project in the same stream. The decision to award a University Medal shall be made by the Faculty Honours Board of Examiners.
- 4.6 To be eligible for the grade of Honours from 2001, a student must successfully complete two Advanced units of study in the same stream.
- 4.7 ~~A weighted average mark (WAM) will be calculated for each candidate as an overall measure of performance in the degree.~~
- 4.8 ~~The degree will be awarded with the following grades:~~
- 4.8.1 ~~First Class Honours: HWAM of 75 or greater with a minimum final honours mark of 85;~~
- 4.8.2 ~~Second Class Honours, division I: HWAM of 70-74 with a minimum final honours mark of 80; Second Class Honours, division II: HWAM of 65-69 with a minimum final honours mark of 75;~~
- 4.9 HWAM means the Honours weighted average mark calculated by the Faculty from results for all 2000, 3000 and 4000 level units attempted for the degree, weighted 2,3,4 for the respective levels. The Advanced (Honours) units of study are given double weighting in this calculation

HWAM =
$\frac{\text{Sum}(M \times C \times L)}{\text{Sum}(C \times L)}$
where C = credit value of unit L = level or weighting of unit M = mark gained in unit

5. **Pass-degree Award of Bachelor of Pharmacy with Major**

- 5.1 Except with the permission of the Faculty, candidates of more than four years standing in the degree shall not be permitted to undertake a unit of study resulting in award of the degree with a major.
- 5.2 In order to receive the award of Pass Degree with Major students must complete the required unit(s) of study as set out in Table 1.
- 5.3 Entry to the prescribed units of study leading to the award of a Major will be on basis of academic merit.
- 5.4 ~~Except with the permission of the Faculty, candidates of more than four years standing in the degree shall not be awarded the degree with honours.~~



- 5.2 Except with the permission of the Faculty honours will not normally be awarded to any student with a grade of F or AF in any unit of study.
- 5.3 Honours students can progress to Second Semester Advanced only if they obtain a credit average in their first semester marks. Students who fail this requirement will go back to the Pass stream, Fourth Year Second Semester.
- 5.4 In order to be considered for the award of the University Medal, a student must obtain a WAM of 85 or greater over the entire degree, and must achieve minimum final honours mark of 90 or greater in two Advanced units of study in the same stream. The decision to award a University Medal shall be made by the Faculty Honours Board of Examiners.
- 5.5 To be eligible for the grade of Honours from 2001, a student must successfully complete two Advanced units of study in the same stream.
- 6. Enrolment in more/less than minimum load**
- 6.1 In the first year of attendance candidates, unless granted credit in accordance with section 13, shall enrol in all the First Year units of study listed in Table 1.
- 6.2 Except with the permission of the Faculty, and subject to the exigencies of the timetable, candidates in subsequent years of attendance shall enrol in the maximum number of prescribed units of study for which they are qualified, provided that they may not take units of study totalling in excess of 54 credit points.
- 6.3 Students who have attempted or gained credit for all units of study in First and Second years of the degree may be eligible to apply for prerequisite waiver which would allow enrolment in the full complement of units of study for the following academic year, together with the failed unit, provided they have no prior grade fail.
- 7. Restrictions on enrolment**
- 7.1 Except with the permission of the Faculty, candidates may not take a Second Year unit of study until they have:
- 7.1.1 gained credit for at least 24 credit points in First year units of study; and
- 7.1.2 completed the First Year units of study, if any, prescribed by the Faculty as qualifying units of study or prerequisites for the Second Year of Study, as set out in Table 1.
- 7.2 Except with the permission of the Faculty, candidates may not take a Third Year unit of study until they have:
- 7.2.1 gained credit for at least 18 credit points derived from Second Year units of study; and
- 7.2.2 7.2.2 completed all the First Year units of study, and all the Second Year units of study, if any, prescribed as qualifying units of study or prerequisites for the Third Year unit of study, as set out in Table 1. ~~and all the First Year units of study.~~
- 7.3 Except with the permission of the Faculty, candidates may not take a Fourth Year unit of study until they have:
- 7.3.1 gained credit for at least 18 credit points derived from Third Year units of study; and
- 7.3.2 completed all the Second Year units of study, and all the Third Year units of study, if any, prescribed by the Faculty as qualifying units of study or prerequisites for the Fourth Year unit of study, as set out in Table 1. ~~and all the Second Year units of study.~~
- 7.4 Candidates may not take a higher unit of study in any subject area without having previously completed the lower unit of study, if any, in the same subject.
- 7.5 The enrolment of candidates in units of study shall be limited by the exigencies of the timetable.
- 8. Discontinuation of enrolment ~~Suspension of candidature~~**
- 8.1 A candidate must re-enrol each calendar year unless the Faculty has approved suspension of candidature. Candidature lapses if a candidate has not obtained approval for suspension and does not re-enrol. Candidates whose candidature has lapsed must be selected for admission again before they can re-enrol.
- 8.2 Except with the prior permission of the Faculty, a candidate shall not be granted a suspension of candidature in order to enrol in another course of tertiary study. Candidature shall lapse if a candidate enrolls in another course of tertiary study without prior permission of the Faculty.
- 9. Re-enrolment after an absence ~~Suspension after an absence~~**
- 9.1 A student must enrol in the semester following a period of approved absence.
- 9.2 ~~Failure to re-enrol immediately after an approved suspension of candidature will result in candidature lapsing.~~
- 10. Satisfactory progress**
- 10.1 Refer to the *University of Sydney (Coursework) Rule 2000 (as amended)* and Academic Board policies.
- 11. Time limit**
- 11.1 Refer to the University of Sydney (Coursework) Rule 2000 (as amended).
- 12. Assessment Policy**
- 12.1 Candidates may be tested by written and oral class examinations, oral examinations, assignments, exercises, essays, or practical work or any combination of these; and
- 12.1.1 the results of such tests may be taken into account by the Faculty Board of Examiners in determining the final results for a unit of study.
- 12.2 In all units of study, work of a higher standard than that required for an ordinary pass may be recognised by the award of high distinction, distinction or credit.
- 12.3 Candidates who have been prevented by duly certified illness or misadventure from sitting for the whole or part of a unit of study assessment may be tested at such times and in such a way as the head of department concerned shall determine.
- 12.4 Candidates who do not pass in a unit of study shall, unless exempted by the Faculty:
- 12.4.1 again attend lectures and other classes; and
- 12.4.2 complete the prescribed written and other work in all such units of study in which they are permitted to re-enrol.
- 12.5 Candidates who present themselves for re-examination in any unit of study shall not be eligible for any prize or scholarship awarded in connection with such examination.
- 12.6 With the consent of the Faculty, additional assessment will only be permitted where:
- 12.6.1 a specific case of special consideration has been approved by the Faculty; or
- 12.6.2 a student in his or her final year has failed a single fourth year unit of study in that year that prevents him or her from completing the degree.
- 13. Credit transfer policy**
- 13.1 Refer to the *University of Sydney (Coursework) Rule 2000 (as amended)* and Academic Board policies.

SECTION 1 – APPENDIX 5: LIBRARY IMPACT STATEMENT

I have examined the Library needs related to the proposal and certify that existing Library holdings, staffing, services and accommodation are, or will be, **adequate/ inadequate** to cover the demands that are inherent in it.

(If there are any concerns about library holdings, please address these.)

.....
for the University Librarian

.....
Date

Further comments:

See Attached Document



University of Sydney

LIBRARY IMPACT STATEMENT

Proposed Award Course: Bachelor of Pharmacy (BPharm)

I have examined Library needs related to the proposed course and certify that existing staffing, services, and accommodation are adequate to cover the demands that are inherent in it.

Print and electronic collections, from the University of Sydney Library, are available to support learning and teaching for this program including the collections in the Medical Library. Course coordinators should use the Library's Electronic Reserve Service to provide students with access to course work materials from wherever they are located.

Course coordinators should continue to inform the library of any new titles that should be acquired to support this program. Further negotiations will need to occur about any new journal titles. Collaboration between the course coordinators and the Faculty Liaison Librarian (Pharmacy) will ensure continued collection development in this area.

It is recommended that course coordinators and the University Library continue to collaboratively develop information literacy programs to support the high level research and information skills necessary for the students to successfully complete this degree program.

We look forward to working in partnership with the staff and students, of the Faculty of Pharmacy, to support this course and in developing training and services appropriate to their needs.

Libby O'Reilly
Director, Health and Medical Libraries
for the University Librarian.
April 2007

SECTION 2: FEE REVIEW AND FEE SETTING

Faculty: Pharmacy

Faculty Contact person and/or: Dr Jane Hanrahan

Ext. No: x12078

Academic Proponent

E-mail: janeh@pharm.usyd.edu.au

2.1.1 Type of proposal:

New

Amended

Deletion

Please note if the proposal is changing the course name, for example Bachelor of ABC to Bachelor of AB (C) then this is a NEW course.

2.1.2 Type of course: Undergraduate

Postgraduate Coursework

Postgraduate Research

2.1.3 Name of Award course(s)

Name of Amended Award course: Bachelor of Pharmacy

2.1.4 Abbreviated name

BPharm

2.1.5 Date of introduction or deletion

Introduced: Year 2008

Semester 1

2.1.6 Fee review and Fee-setting

(a) Fees for Undergraduate award course:

There are no changes proposed to current fee band for Commonwealth Supported Places. Apart from general fee increases for both local and international fee-paying students, which have been set for 2008 in consultation with the Planning Office, there are no changes to the fees for this amended course.

PROPOSED BY:

Nominated Faculty Officer Dean of Faculty (or Delegate) PVC (College)

APPROVAL:

Deputy Vice-Chancellor (Academic & International) / Vice-Chancellor

SECTION 3: COURSE INFORMATION FORM AND MARKETING PLAN

PART 1: COURSE INFORMATION FOR FLEXSIS

Faculty: Pharmacy

Department/School presenting the proposal:

Faculty Contact person and/or: Dr Jane Hanrahan

Ext. No: 12078

Academic Proponent

E-mail:

janeh@pharm.usyd.edu.au

3.1.1 Type of proposal:

New

Amended

Deletion

Please note if the proposal is changing the course name, for example Bachelor of ABC to Bachelor of AB (C) then this is a NEW course.

3.1.2 Type of course: Undergraduate

Postgraduate Coursework

Postgraduate Research

3.1.3 Name of Award course(s)

Name of New Award course:

OR

Name of Amended Award course: Bachelor of Pharmacy

OR

Change of name of Existing Award Course:

From

to

OR

Name of Award course to be Deleted:

3.1.4 Abbreviated name

BPharm

3.1.5 Date of introduction or deletion

Introduced: Year 2008 Semester 1

Deletion: Year Semester

3.1.6 Course Code

Course Code of Existing Award Course for amendment or deletion:

PH001

3.1.7 CRICOS Code

CRICOS Code of Existing Award Course for amendment or deletion:

000723J

3.1.8 Short degree description (e.g. for the UAC Guide):

In First Year students take biology and chemistry, together with introductory pharmacy units of study. Courses in Second Year include life sciences, drug discovery and design, microbiology, formulation and dispensing, therapeutic principles and introduction to pharmacy practice. In Third Year studies include the following themes: neurology, gastroenterology, oncology/immunology, dermatology, musculoskeletal, renal, urogenital, reproductive and multiple systems pathology. In Fourth Year, students undertake units of study in management, therapeutics in practice, clinical placements, integrated pharmacy practice and advanced pharmaceutical sciences. Studies involve clinical practice externships spent on assignments at health professional locations. Students undertaking the Rural Major will study indigenous health issues, rural and remote health care and will undertake their clinical practice externship in a rural area. Advanced (Honours) study is available in Pharmaceutics, Pharmaceutical Chemistry, Pharmacology and Pharmacy Practice for invited students.

3.1.9 Full degree description (e.g. for Faculty handbook):

No Change

3.1.10 Level of Award:

Higher Doctorate	<input type="checkbox"/>
Doctor of philosophy (PhD)	<input type="checkbox"/>
Doctorate by research and advanced coursework	<input type="checkbox"/>
Masters degree by research	<input type="checkbox"/>
Masters degree by coursework	<input type="checkbox"/>
Graduate Diploma	<input type="checkbox"/>
Graduate Certificate	<input type="checkbox"/>
Bachelor's degree	<input checked="" type="checkbox"/>
Advanced Diploma	<input type="checkbox"/>
Associate Diploma	<input type="checkbox"/>
Diploma	<input type="checkbox"/>
Certificate	<input type="checkbox"/>

3.1.11 Is this an Honours course? Yes No

Students wishing to undertake Honours in the Bachelor of Pharmacy must complete prescribe units of study in the fourth year which include 24 credit points of a research project.

3.1.12 If the proposal is for a new award course, please indicate if the new course is the result of new resolutions for an existing course? Yes No

3.1.13 Name of award that will be conferred upon completion of course:

Bachelor of Pharmacy

3.1.14 If the proposal is for a new award course, please indicate which category the proposed course should be allocated to according to the DEST Field of Education and Discipline Area (available from the [Courses and Fees Toolkit on the Academic and International website](#)):

DEST Field of Education	060500
DEST Discipline Area	060501

3.1.15 Credit points required for the Award: 192

3.1.16 Location/ Campus for Student Attendance:

Camperdown & Darlington	<input checked="" type="checkbox"/>	Camden	<input type="checkbox"/>	Cumberland	<input type="checkbox"/>
Mallett Street	<input type="checkbox"/>	St James	<input type="checkbox"/>	College of the Arts	<input type="checkbox"/>
Conservatorium	<input type="checkbox"/>	Offshore	<input type="checkbox"/>	please specify	
Hospital (please specify)					

3.1.17 Are students enrolling in the proposed award course subject to:

Criminal Record Check	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Prohibited Employment Declaration	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Health Records & Privacy Information Declaration	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>

3.1.18 Prohibitions:

No change to current Prohibitions

3.1.19 Articulation Pathway (if applicable):

Not Applicable

3.1.20 Units of Study offered in proposed award course:

(a). Existing units of study

UoS Code	UoS Name	Core / Elective	Session Offered	Course Year Offered
BIOL1003	Human Biology	Core	1	1
MBLG1001	Molecular Biology & Genetics	Core	2	1
CHEM1611	Chemistry A (Pharmacy)	Core	1	1
CHEM1612	Chemistry A (Pharmacy)	Core	2	1
PSPC2601	Physiology and Pharmacology A (Pharmacy)	Core	1	2
PSPC2602	Physiology and Pharmacology A (Pharmacy)	Core	2	2
PHAR1617	Social Pharmacy	Core	2	1
PHAR4927	Pharmaceutics Advanced (A)		1	4
PHAR4928	Pharmaceutical Chemistry Advanced (A)		1	4
PHAR4929	Pharmacy Practice Advanced (A)		1	4
PCOL4904	Pharmacology Advanced (A)		1	4

(b). New units of study

UoS Code	UoS Name	Core / Elective	Faculty	Australian Standard Classification Education (ASCED) Code	Session & Campus Offered	Credit Points
PHAR1XXX	Foundations of Pharmacy	Core	Pharm	060500	Camperdown/1	6
PHAR1XXX	Basic Pharmaceutical Sciences	Core	Pharm	060500	Camperdown/1	6
PHAR1XXX	Physical Formulation 1	Core	Pharm	060500	Camperdown/2	6
PHAR2XXX	Drug Discovery & Design A	Core	Pharm	060500	Camperdown/1	6
PHAR2XXX	Microbiology & Infection	Core	Pharm	060500	Camperdown/1	6
PHAR2XXX	Therapeutic Principles	Core	Pharm	060500	Camperdown/1	6
PHAR2XXX	Drug Discovery & Design B	Core	Pharm	060500	Camperdown/2	6
PHAR2XXX	Physical Formulation 2	Core	Pharm	060500	Camperdown/2	6

PHAR2XXX	Introduction to Pharmacy Practice	Core	Pharm	060500	Camperdown/2	6
PHAR3XXX	Theme 1	Core	Pharm	060500	Camperdown/1	6
PHAR3XXX	Theme 2	Core	Pharm	060500	Camperdown/1	6
PHAR3XXX	Theme 3	Core	Pharm	060500	Camperdown/1	6
PHAR3XXX	Theme 4	Core	Pharm	060500	Camperdown/1	6
PHAR3XXX	Theme 5	Core	Pharm	060500	Camperdown/2	6
PHAR3XXX	Theme 6	Core	Pharm	060500	Camperdown/2	6
PHAR3XXX	Theme 7	Core	Pharm	060500	Camperdown/2	6
PHAR3XXX	Theme 8	Core	Pharm	060500	Camperdown/2	6
PHAR4XXX	Integrated Pharmacy Practice	Core	Pharm	060500	Camperdown/1	12
PHAR4XXX	Quality Use of Medicines	Core	Pharm	060500	Camperdown/1	6
PHAR4XXX	Pharmacy Management	Core	Pharm	060500	Camperdown/1	6
PHAR4XXX	Indigenous Health		Pharm	060500	Camperdown/1	6
PHAR4XXX	Clinical Placement	Core	Pharm	060500	Camperdown/2	12
PHAR4XXX	Therapeutics in Practice	Core	Pharm	060500	Camperdown/2	6
PHAR4XXX	Advanced Pharmaceutical Sciences	Core	Pharm	060500	Camperdown/1	6
PHAR4XXX	Pharmaceutics Advanced (B)		Pharm	060500	Camperdown/2	24
PHAR4XXX	Pharmaceutical Chemistry Advanced (B)		Pharm	060500	Camperdown/2	24
PHAR4XXX	Pharmacy Practice Advanced (B)		Pharm	060500	Camperdown/2	24
PHAR4XXX	Pharmacology Advanced (B)		Pharm	060500	Camperdown/2	24
PHAR4XXX	Pharmacy Exchange Program		Pharm	060500	Camperdown/2	24
PHAR4XXX	Industrial Placement		Pharm	060500	Camperdown/2	24
PHAR4XXX	Rural & Remote Health Care		Pharm	060500	Camperdown/2	6
PHAR4XXX	Therapeutics in Rural Practice		Pharm	060500	Camperdown/2	6
PHAR4XXX	Rural Clinical Placement		Pharm	060500	Camperdown/2	12

SECTION 3 : COURSE INFORMATION FORM AND MARKETING PLAN

PART 2: COURSE INFORMATION FOR UNIVERSITY'S UNDERGRADUATE AND POSTGRADUATE COURSE DATABASE (FOR MARKETING PURPOSES)

There are no changes to the Bachelor of Pharmacy degree information that is currently available in the University Course Database.

3.2.1 UAC Code: 512400 (Undergraduate courses only)

3.2.2 CRICOS Code: 000723J

SECTION 3 : COURSE INFORMATION FORM AND MARKETING PLAN

PART 3: MARKETING PLAN

3.3.1 Marketing plan and strategy

There are no changes to the current plans for marketing the Bachelor of Pharmacy award course.

APPROVALS

Nominated Faculty Officer

Dean of Faculty (or Delegate)

SECTION 4: INTERNATIONAL STUDENT ADMINISTRATION REQUIREMENTS

Faculty: Pharmacy

Department/School presenting the proposal:

Faculty Contact person and/or: Dr Jane Hanrahan Ext. No: 12078

Academic Proponent E-mail: janeh@pharm.usyd.edu.au

4.1.1 Type of proposal: New
Amended Please note if the proposal is changing the
course name, for example Bachelor of ABC to
Bachelor of AB (C) then this is a NEW course.
Deletion

4.1.2 Type of course: Undergraduate
Postgraduate Coursework
Postgraduate Research

4.1.3 Name of Award course(s)

Name of Amended Award course: Bachelor of Pharmacy

4.1.4 Abbreviated name

BPharm

4.1.5 Date of introduction or deletion

Introduced: Year 2008 Semester 1

4.1.6 Course Code

Course Code of Existing Award Course for amendment or deletion: PH001

4.1.7 CRICOS Code

CRICOS Code of Existing Award Course for amendment or deletion: 000723J

There is no change to the existing international student administration requirements.

APPROVALS

.....
Dean or delegate

The Proposed Course is suitable for CRICOS registration and International Office processing.

.....
Director International Office

SECTION 5: PLANNING SUPPORT OFFICE

Faculty: Pharmacy

Faculty Contact person and/or: Dr Jane Hanrahan

Ext. No: 12078

Academic Proponent

E-mail:

janeh@pharm.usyd.edu.au

5.1.1 Type of proposal:

New

Amended

Please note if the proposal is changing the course name, for example Bachelor of ABC to Bachelor of AB (C) then this is a NEW course.

Deletion

5.1.2 Type of course:

Undergraduate

Postgraduate Coursework

Postgraduate Research

5.1.3 Name of Award course(s)

Name of Amended Award course: Bachelor of Pharmacy

5.1.4 Abbreviated name

BPharm

5.1.5 Date of introduction or deletion

Introduced: Year 2008 Semester 1

Deletion: Year Semester

5.1.6 Estimated percentage distribution of load across departments in one or more faculties:

Faculty	Department	Estimated percentage of load
Pharmacy		76.5
Science	Chemistry	6.3
	Biology	4.7
	MMB	3.13
Medicine	Physiology	3.13
	Pharmacology	6.3

5.1.7 Number of semesters required to complete the course in minimum time

8

5.1.8 Estimated Student Enrolments (i.e. Head Count)

Estimated Student Enrolments		2xxx	2xxx	2xxx
Commonwealth-supported	Full-time	199	199	199
	Part-time	n/a	n/a	n/a
Local fee-paying	Full-time	30	30	30
	Part-time	n/a	n/a	n/a
International fee-paying	Full-time	30	30	30
	Part-time	n/a	n/a	n/a
Total Student Enrolments		259	259	259

5.1.9 For undergraduate degrees only, please indicate the expected 'carry-on' rate from one academic year to the next.

Carry-on rate for the BPharm degree is greater than 97%.

5.1.10 IMPORTANT The University operates within a fixed target for Commonwealth Supported load. Any new course proposals which include intakes of Commonwealth Supported (HECS) students must be accompanied by an indication of a corresponding reduction in the HECS intake to another degree of similar duration offered within the same Faculty.

Details of proposed reduction:

APPROVALS

Nominated Faculty Officer

Dean of Faculty or delegate

Subject: [Fwd: curriculum review-SHPA response]

From: Greg Ryan <gryan@pharm.usyd.edu.au>

Date: Thu, 17 Aug 2006 12:27:45 +1000

To: Iqbal Ramzan <iqbalr@pharm.usyd.edu.au>, Jane Hanrahan <janeh@pharm.usyd.edu.au>, Basil Roufogalis <basilr@pharm.usyd.edu.au>, Colin Duke <colind@pharm.usyd.edu.au>, Mary Collins <mcollins@pharm.usyd.edu.au>, Ines Krass <inesk@pharm.usyd.edu.au>, Kylie Williams <kylie@pharm.usyd.edu.au>, ericas <ericas@pharm.usyd.edu.au>, andrewm <andrewm@pharm.usyd.edu.au>, Mary Bebawy <maryb@pharm.usyd.edu.au>

dear all - reminder of the curric review planning group meeting tomorrow (Friday) at 9am in Rm S302. Attached is:
- response via Jo Brien from SHPA
- minutes of the two Faculty Forums, with points for change/discussion highlighted.
thanks
greg

Subject: curriculum review-SHPA response
From: "Jo-anne Brien" <jbrien@stvincents.com.au>
Date: Thu, 17 Aug 2006 08:54:21 +1000
To: <gryan@pharm.usyd.edu.au>
CC: "Jo-anne Brien" <jbrien@stvincents.com.au>

Dear Greg,
please find attached my notes from discussion at the recent SHPA meeting regarding the BPharm curriculum review.
I know the timeline is short- so was keen to get back to you quickly- even if these notes are less formal than I would have liked.
As I comment in the notes- I am happy to spend more time working with you and others if appropriate to transform these issues to appropriate wording for the document.

Happy to discuss further, best wishes,Jo

I have attached 3 documents--notes from SHPA, the 'National Patient Safety Framework', and the 2005 APAC 'Guiding principles to Achieve Continuity in Medication Management'

Professor Jo-anne Brien
University of Sydney and
St Vincent's Hospital
Phone: (02)83822605; Fax: (02)83824219

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Faculty Forum Minutes 28 Jul.doc	Content-Type: application/octet-stream Content-Encoding: base64
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curriculum review-SHPA response	Content-Type: message/rfc822
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SHPA response JBGR0806.doc

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APAC 2005.pdf

Content-Type: application/pdf
Content-Encoding: base64

framework0705.pdf

Content-Type: application/pdf
Content-Encoding: base64

Subject: [Fwd: Re: curriculum document]

From: Greg Ryan <gryan@pharm.usyd.edu.au>

Date: Mon, 14 Aug 2006 08:43:42 +1000

To: Iqbal Ramzan <iqbalr@pharm.usyd.edu.au>, Jane Hanrahan <janeh@pharm.usyd.edu.au>, Basil Roufogalis <basilr@pharm.usyd.edu.au>, Colin Duke <colind@pharm.usyd.edu.au>, Mary Collins <mcollins@pharm.usyd.edu.au>, Ines Krass <inesk@pharm.usyd.edu.au>, Kylie Williams <kylie@pharm.usyd.edu.au>, ericas <ericas@pharm.usyd.edu.au>, andrewm <andrewm@pharm.usyd.edu.au>, Mary Bebawy <maryb@pharm.usyd.edu.au>

dear all - attached is response from Louis Roller at Monash, for discussion at our meeting this coming Friday at 9am (most likely to be in S302, not Common Room). I've sent a note to thank him for the very helpful comments.
greg

--

Associate Professor Greg Ryan PhD
Director, Pharmacy Education Unit
Faculty of Pharmacy
The University of Sydney NSW 2006
Tel: +61 2 9036 7023
Fax: +61 2 9351 6646
Email: gryan@pharm.usyd.edu.au

Subject: RE: curriculum document

From: Louis Roller <Louis.Roller@vcp.monash.edu.au>

Date: Fri, 11 Aug 2006 16:20:03 +1000

To: Greg Ryan <gryan@pharm.usyd.edu.au>

Dear Greg,

Attached is your excellent document.

It is most impressive and I congratulate all the people involved in producing it,

I have made some very minor comments (in red). Just suggestions, hence the question marks.

A couple of points:

It is a very ambitious program and I wonder if all the goals can be attained in four years?

I don't see anywhere anything about the history of pharmacy and medicine. I would see this as an important (if small) area to give students an appreciation of where the profession comes from

Is it absolutely essential for all of the objectives to be met at all year levels? By that I mean some areas could start at say second or even third-year levels, thereby negating the need to express objectives at first year or second year depending on what the area is. Conversely, some areas (here I think specifically of the chemical sciences) could cut out after say year two or three.

Somewhere, I would like the concepts of 'quality use of medicine', 'patient care', and 'patient outcomes' to be emphasised

Earlier this year I ran a survey of graduates who had completed the 4-year BPharm and the current (2006) pre-registrants on their evaluations and perceptions of our course. I'm attaching it for your interest. I'm not sure if it has any bearing on your endeavour, but feel free to use it in any way you like.

If I can assist further, I would be delighted.

Associate Professor Louis Roller
Department of Pharmacy Practice
Associate Dean Teaching

[Fwd: Re: curriculum document]

Victorian College of Pharmacy
Monash University
381 Royal Parade, Parkville
Victoria 3052
Australia
Telephone: +61 3 9903 9578
Fax.: +61 3 9903 9578

Re: curriculum document	Content-Type: message/rfc822 Content-Encoding: 7bit
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BPharm curric review DRAFT learning outcomes3.doc	Content-Description: BPharm curric review DRAFT learning outcomes3.doc Content-Type: application/msword Content-Encoding: base64
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BPharmSurvey.pdf	Content-Description: BPharmSurvey.pdf Content-Type: application/octet-stream Content-Encoding: base64
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Date: Tue, 5 Sep 2006 12:37:17 +1000
From: Elizabeth May <emay@mail.usyd.edu.au>
To: cetaylor@bio.usyd.edu.au (Charlotte Taylor, Faculty T & L Committee and SOBS), ericas@pharm.usyd.edu.au (Erica Sainsbury, First Year Coordinator, Pharmacy), janeh@pharm.usyd.edu.au (Jane Hanrahan, Assoc. Dean, Pharmacy), m.pickup@edfac.usyd.edu.au (Meg Pickup, Education), headofbio@bio.usyd.edu.au (Mike Thompson, Head of School, SOBS), M.Guss@mmb.usyd.edu.au (MMB), osu@bio.usyd.edu.au (Osu Lilje, UEO Human Biology, SOBS), L.Harris@fhs.usyd.edu.au (Lynne Harris, Health Sciences, Cumberland), a.davison@fhs.usyd.edu.au (Alastair Davison, Health Sciences, Cumberland)

Dear colleagues,

Please find attached the proposed timetable for Human Biology, Semester 1, 2008. The information below outlines the background to this proposal.

The proposed timetable has been accepted by our School Teaching Committee and circulated to SoBS academic staff for comment. The proposal is now being circulated to the members of the Committee. We will arrange to meet in the near future to discuss any further issues arising from this proposal.

If you have any comments to make, please forward them to me, with copy to the Committee where relevant.

Could you please let me know if there are any specific weeks in the next month or so during which it would be impossible for you to attend a meeting of the Committee? (e.g./ times of leave or heavy teaching commitments.) On this basis I will propose a time for our next meeting.

Regards,
Elizabeth.

Changes to First Year Biology for 2008

The inaugural meeting of the FYB2008 Committee took place on 11 April this year, to discuss the proposal for Human Biology to run in Semester 1, 2008. Those present were: Dr Elizabeth May (Director First Year Biology); Dr Osu Lilje (UEO Human Biology); Assoc Prof Mike Thompson (HoS, SoBS); Dr Charles Collyer (MMB); Dr Jane Hanrahan (Pharmacy); Meg Pickup (Education - Human Movement)

The meeting was presented with the "Background to FYB2008", which outlined proposed changes to Human Biology, viz. / "The proposal to present Human Biology (and Human Bioscience) in Semester 1 will entail changes to the curriculum to ensure that students are given exposure to the basic biological concepts required to understand human structure and physiology. These areas include basic cell and tissue structure, aerobic and anaerobic cellular metabolism and cell reproduction (mitosis and meiosis). All concepts will be linked to human processes, e.g. disease states, human systems function, effects of mutations."/

/

All members present agreed in principle to the proposed changes. Mention was made that the unit must also include essential skills: microscopy, scientific method, report writing and oral communication skills. The following actions were proposed:

- o Sub-committee of SoBS members to prepare outline of Human Biology 2008 over the next 3 months (/i.e./ May, June, July). This would require several meetings.
- o Dr Lilje to submit TDG application for development of Human Biology 2008.
- o By Week 3, semester 2, 2006: Send out draft timetable to Committee.
(/Delayed as SoBS HoS meanwhile requested that the proposal be submitted to TCom in August before being discussed at another full meeting of the FYB2008 Committee./)
- o Arrange next full committee meeting, including representative(s) from Cumberland campus (Assoc Prof Lynne Harris / Dr Alastair Davison). Circulate proposal before meeting./
- o By February, 2007: submit proposed unit of study descriptions to Undergraduate Studies Committee.

Dr Lilje and Dr May met to prepare a proposed timetable of lectures, practical classes, on-line learning modules and assessment for Human Biology 2008 (attached). The main organisational feature will be that practical classes will run over two weeks, each student having a class once a fortnight, to accommodate the large student numbers (possibly 2000). Dr Lilje has secured a Teaching Development Grant to assist in preparing the materials for Human Biology 2008.

--

Dr Elizabeth May
Director, First Year Biology
School of Biological Sciences
Building F07
University of Sydney 2006
Australia

Phone: 61-2-9351 2961
Fax: 61-2-9351 2175
Email: lizmay@bio.usyd.edu.au

Subject: Re: Maths for Pharmacy
Date: Mon, 23 Apr 2007 08:47:25 +1000
From: Sandra Britton <sandrab@maths.usyd.edu.au>
Organization: Maths & Stats, Uni of Sydney
To: Jane Hanrahan <janeh@pharm.usyd.edu.au>
References: <45BED88A.4040300@pharm.usyd.edu.au>
<45CFF22C.3070301@maths.usyd.edu.au>
<45D00880.4000905@pharm.usyd.edu.au>
<45D019A4.5020608@maths.usyd.edu.au>
<462B3506.7080805@pharm.usyd.edu.au>

Dear Jane,

I confirm that you have consulted with us, and that the School of Mathematics and Statistics is happy to support the change and collaborate with Pharmacy in developing the integrated curriculum.

Sandra

--

Sandra Britton
Director, First Year Mathematics
School of Mathematics and Statistics
University of Sydney

Subject: Re: Biochem for Pharmacy Meeting
Date: Fri, 23 Mar 2007 13:16:48 +1100
From: Mitchell Guss <M.Guss@mmb.usyd.edu.au>
To: Jane Hanrahan <janeh@pharm.usyd.edu.au>, Arthur Conigrave <A.Conigrave@mmb.usyd.edu.au>
CC: greg ryan <gryan@pharm.usyd.edu.au>
References: <4601F8EA.1040405@pharm.usyd.edu.au>

Jane,

I have attached the course outline for the first semester second year MBLG UoS. We believe that we will be able to offer 3 hour laboratory sessions as we do for BMedSci. The exact number will depend on your final analysis of the available contact hours. We currently give 5 x 3 hours to BMedSci. At least 3 of these are suitable or could easily be modified to be very relevant to the Pharmacy course. Additional practical sessions will, however, require careful timetabling. BMedSci currently use our underutilised mornings and slotting in between those on alternate weeks might be the best bet.

Cheers,

Mitchell

At 02:32 PM 22/03/2007, Jane Hanrahan wrote:

>Hi Arthur and Mitchell,
>
>thanks for your helpful input in to the discussion regarding teaching of Biochem to Pharmacy students.
>
>A quick summary of todays meeting
>
>- Greg to send copy of Pharmacy Learning Outcomes document to Biochem
>
>- Pharmacy to consider including some further molecular biology and possibly genomics/proteomics in the biochem UoS
>- Biochem to send Jane course outline for 2nd year MBLG UoS
>- Alternative possibility for Biochem staff to teach genomics/proteomics in a 2nd year Pharmacy UoS (Med Chem?)
>- Biochem would like to discuss with Bret Church regarding teaching of structural biology/proteomics
>
>
>Biochem to investigate feasibility of 3 hour labs
>
>Jane to investigate possibility of Pharmacy maintaining WebCT site for biochem or combined UoS.
>
>Pharmacy to start discussions with Physiology regarding content and possible future meeting with Biochem/Physiol/Pharmacy to explore options regarding the teaching of Biochem and Physiology.
>
>Let me know if I have forgotten anything.
>

>regards
>Jane
>
>--
>*****
>
>Dr Jane Hanrahan
>Pharmaceutical Chemistry
>Associate Dean Undergraduate
>Rm N408
>Faculty of Pharmacy (A15) Ph 61 2 9351 2078
>University of Sydney Fax 61 2 9351 4391
>NSW 2006
>Australia
>
>*****
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Professor Mitchell Guss
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N.S.W. 2006, AUSTRALIA

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--

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