




U21 Health Sciences Meeting 2007

Curriculum Review and Evaluation

School of Pharmacy




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Snapshot

- Oldest (and only) School of Pharmacy in Queensland
- Pharmacy → University ~1960
- Drivers for curriculum change ?



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Drivers for change – 1990s

- 3-year programmes - insufficient to develop the knowledge, skills and attitudes necessary for the modern practice of pharmacy (Australia)
- International view of practice of pharmacy moving from product and delivery orientation towards view of pharmacy as a patient focused health care profession, concerned with the appropriate use (not just supply) of medication.
- 4-year programmes developing elsewhere – e.g. UK & Australia – NZ since 1962

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Drivers for change – 1990s

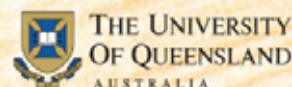
- Support from professional organisations
- Registration conditions – issues of mutual recognition within Australia – and also internationally
- Accreditation pressures
- Introduction of honours
- Increase integration within programme - ↑ professional cohesiveness and ↑ professional socialization
- Feedback



**Pharmaceutical
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Existing programme

OLD BPharm First Year			
Code	#	Title	Semester
AN114	8	Gross & Microscopic Anatomy (Pharmacy)	2
BL102	9	Mammalian Anatomy & Physiology	1
BL103	9	Biochemistry	2
CH104	10	Chemistry 1C	1
CH105	10	Chemistry 1D	2
MP105	8	Mathematical Methods & Applications	1
MS113	8	Elementary Statistics I	2
PC130	7	Pharmaceutical Microbiology	2
PC150	26	Pharmaceutics I	Year
PH128	10	Physical Properties of Matter	1

OLD BPharm Second Year			
Code	#	Title	Semester
BC216	12	Biochemistry (Pharmacy)	1
CH228	10	Chemistry 2A (Pharmacy)	1
CH229	7	Chemistry 2B (Pharmacy)	2
PC210	10	Phytochemistry	1
PC216	6	Drug Chemistry A	2
PC217	10	Drug Analysis	2
PC250	20	Pharmaceutics 2	Year
PK204	12	Pharmacology (Pharmacy) A	Year
PL250	19	Physiology (Pharmacy)	Year

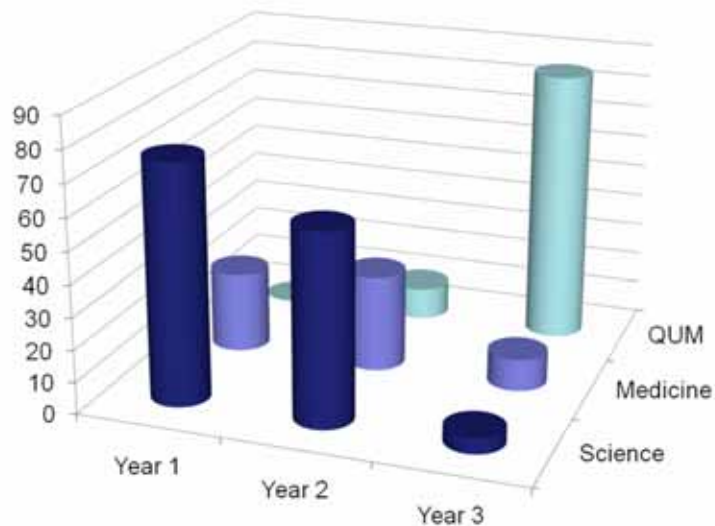
OLD BPharm Third Year			
Code	#	Title	Semester
PC303	28	Clinical Pharmacy Practice	Year
PC316	6	Drug Chemistry B	1
PC345	10	Pharmacy Administration	2
PC350	10	Pharmaceutics III	1
PC360	20	Pharmatherapeutics	Year
PC370	6	Integrated Pharmacy	2
PK301	10	Pharmacology (Pharmacy) B	1
SM320	10	General Medicine	Year
SM330	5	Health Promotion	1

- Traditional programme
- Heavily science-based
- Little clinical experience



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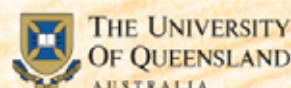
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New programme

- 4-year pharmacy programme
- Horizontal and vertical integration – themes
 - Quality Use of Medicines
 - Dosage Form Design
 - Drug Discovery
 - Data Analysis in Pharmacy
 - Biological Fate of Drugs
 - Social and Professional Aspects of Pharmacy
- Experiential placements; student centred learning
- On-course honours

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New programme

NEW BPharm First Year			
ANAT1025	2	Gross & Microscopic Anatomy (Pharmacy)	2
BIOL1015	2	Human Biology	1
BIOL1014	2	Molecular and Microbial Biology	2
CHEM1020	2	General Chemistry	1
CHEM1030	2	Chemical Bonding & Organic Chemistry	2
PHRM1020	2	Data Analysis & Professional Practice	1
PHRM1010	4	Introductory Pharmacy	Year

NEW BPharm Second Year			
BIOM2009	2	Human Physiology and Pharmacology	1
PHRM2030	1	Social and Professional Aspects	1
PHRM2040	1	Drug Discovery A1	1
PHRM2010	4	Quality Use of Medicines A	Year
PHRM2020	4	Dosage Form Design A	Year
BIOM2010	2	Human Physiology and Pharmacology	2
PHRM2041	2	Drug Discovery A2	2
PHRM2050	1	Biological Fate of Drugs A	2

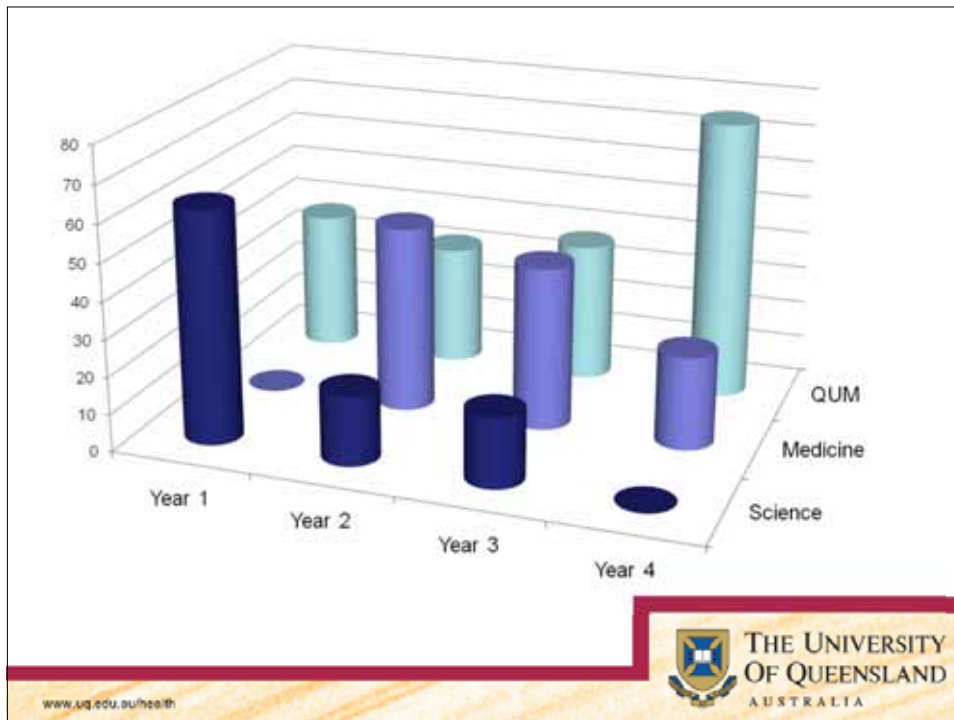
NEW BPharm Third Year			
BIOM3010	2	Human Physiology and Pharmacology	1
PHRM3030	1	Social and Professional Aspects	Year
PHRM3040	1	Drug Discovery B	Year
PHRM3010	4	Quality Use of Medicines B	Year
PHRM3020	4	Dosage Form Design B	Year
BIOM3011	2	Human Physiology and Pharmacology	2
PHRM3050	2	Biological Fate of Drugs B	Year
PHRM3025	4	Dosage Form Design Honours	Year
PHRM3045	1	Drug Discovery B Honours	Year

NEW BPharm Fourth Year			
PHRM4010	8	Quality Use of Medicines C	Year
PHRM4020	4	Molecules to Medicines	Year
PHRM4030	4	Social and Professional Aspects	Year
PHRM4015	8	Quality Use of Medicines C Honours	Year
PHRM4025	4	Molecules to Medicines Honours	Year

- Thematic horizontal and vertical integration
- Experiential placements

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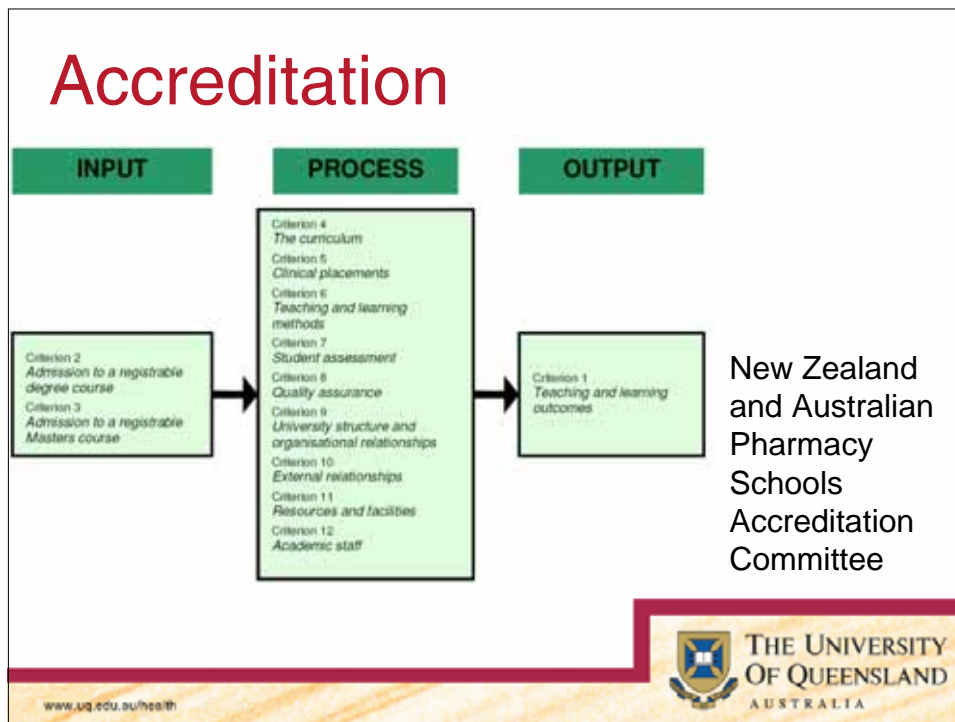


New programme - evaluation

- TEVALs, 1st yr Experience
- iCEVALs, Destination Survey
- Feedback from profession
- Feedback from preceptors
- Feedback from students – portal forum
- Staff-student liaison meetings
- Assessment - variety
- External examiners; accreditation



Accreditation



New programme - evaluation

- Results feed into T & L Committee
- Horizontal and Vertical Stream meetings
- Change is enacted
- Learning developments: interprofessional learning



integrated cases

QUM placements

Recent initiatives

- Feedback from preceptors, profession, staff and students
 - English language testing (all 1st Year)
 - IELTS from all international applicants 6.5 → 7.0
 - Calculations and testing
 - Rural placement – 2nd yr to 3rd yr
- Interprofessional learning and education
- Future roles / preparation

Pharmacy: the future

Pharmacy: the past

