



<p>1.0 Degree Title Specify the two degrees for concurrent degree programs</p> <p>1.1 <input style="width: 80%;" type="text" value="B.Sc."/></p> <p>1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.) <input style="width: 80%;" type="text" value="Honours in Pharmacology"/></p> <p>1.3 Minor (with Concentration, if applicable) (30 char. max.)</p> <p>1.4 Category</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">Faculty Program (FP)</td> <td style="width: 50%; border: none;"><input checked="" type="checkbox"/> Honours (HON) X</td> </tr> <tr> <td style="border: none;">Major</td> <td style="border: none;"><input type="checkbox"/> Joint Honours Component (HC)</td> </tr> <tr> <td style="border: none;">Joint Major</td> <td style="border: none;"><input type="checkbox"/> Internship/Co-op</td> </tr> <tr> <td style="border: none;">Major Concentration (CON)</td> <td style="border: none;"><input type="checkbox"/> Thesis (T)</td> </tr> <tr> <td style="border: none;">Minor</td> <td style="border: none;"><input type="checkbox"/> Non-Thesis (N)</td> </tr> <tr> <td style="border: none;">Minor Concentration (CON)</td> <td style="border: none;"><input type="checkbox"/> Other</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"><input type="checkbox"/> Please specify</td> </tr> </table> <p>1.5 <input style="width: 80%;" type="text" value="B.Sc. Honours in Pharmacology"/></p>	Faculty Program (FP)	<input checked="" type="checkbox"/> Honours (HON) X	Major	<input type="checkbox"/> Joint Honours Component (HC)	Joint Major	<input type="checkbox"/> Internship/Co-op	Major Concentration (CON)	<input type="checkbox"/> Thesis (T)	Minor	<input type="checkbox"/> Non-Thesis (N)	Minor Concentration (CON)	<input type="checkbox"/> Other		<input type="checkbox"/> Please specify	<p>2.0 Administering Faculty/Unit <input style="width: 80%;" type="text" value="Science"/></p> <p>Offering Faculty/Department <input style="width: 80%;" type="text" value="Medicine/Pharmacology & Therapeutics"/></p> <p>3.0 Effective Term of revision or retirement Please give reasons in 5.0 "Rationale" in the case of retirement (Ex. Sept. 2004 = 200409) Retirement</p> <p>Term: <input style="width: 80%;" type="text" value="201109"/></p> <p>4.0 Existing Credit Weight Proposed Credit Weight</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: 1px solid black; text-align: center;">74</td> <td style="width: 50%; border: 1px solid black; text-align: center;">74</td> </tr> </table> <p>5.0 Rationale for revised program</p> <div style="border: 1px solid black; padding: 5px;"> <p>-BIOL 202 was moved to the U1 required course list from U2. The required credits for U1 is now 22 credits.</p> <p>-CHEM 203 and CHEM 204 from the complementary list were moved to U2 instead of U1. The required credits for U2 is now 16 credits instead of 19 credits.</p> <p>-The following courses were added to the complementary list in the upper level courses in U3: CHEM 352, CHEM 382, CHEM 522, CHEM 552, and EXMD 401.</p> <p>-CHEM 504 and PHAR 504 are no longer double-prefix courses, therefore the Note is no longer required. <input type="checkbox"/></p> </div>	74	74
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74	74																

6.0 Revised Program Description (Maximum 150 words)

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
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7.0 List of existing program and proposed program

Existing program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

Honours in Pharmacology (74 credits)

U1 Required Courses (19 credits)

* Students with prior credit for CHEM 212 may take an elective in place of this course.

BIOL 200 (3) Molecular Biology
CHEM 212* (4) Introductory Organic Chemistry 1
CHEM 222 (4) Introductory Organic Chemistry 2
PHGY 209 (3) Mammalian Physiology 1
PHGY 210 (3) Mammalian Physiology 2
PHGY 212 (1) Introductory Physiology Laboratory 1
PHGY 213 (1) Introductory Physiology Laboratory 2

U2 Required Courses (19 credits)

BIOC 311 (3) Metabolic Biochemistry
BIOL 202 (3) Basic Genetics
BIOL 301 (4) Cell and Molecular Laboratory
PHAR 300 (3) Drug Action
PHAR 301 (3) Drugs and Disease
PHAR 303 (3) Principles of Toxicology

U3 Required Courses (18 credits)

* PHAR 599D1 and PHAR 599D2 are taken together.

PHAR 503 (3) Drug Design and Development 1
PHAR 558 (3) Pharmacology Selected Topics
PHAR 562 (3) General Pharmacology 1
PHAR 563 (3) General Pharmacology 2
PHAR 599D1* (3) Pharmacology Research Project
PHAR 599D2* (3) Pharmacology Research Project

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits selected from (usually in Year 1):
ANAT 212 (3) Molecular Mechanisms of Cell Function
BIOC 212 (3) Molecular Mechanisms of Cell Function
BIOL 201 (3) Cell Biology and Metabolism
3 credits selected from (usually in Year 1):
CHEM 203 (3) Survey of Physical Chemistry
CHEM 204 (3) Physical Chemistry/Biological Sciences 1
3 credits selected from (usually in Year 2):
BIOL 373 (3) Biometry
MATH 203 (3) Principles of Statistics 1
PSYC 204 (3) Introduction to Psychological Statistics

9 credits selected from the following upper-level science courses:

Committee approval is required to substitute an upper-level science course not in the list below.

* Note: Students may take either ANAT 458 or BIOC 458.

Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

Honours in Pharmacology (74 credits)

U1 Required Courses (22 credits)

* Students with prior credit for CHEM 212 may take an elective in place of this course.

BIOL 200 (3) Molecular Biology
BIOL 202 (3) Basic Genetics
CHEM 212* (4) Introductory Organic Chemistry 1
CHEM 222 (4) Introductory Organic Chemistry 2
PHGY 209 (3) Mammalian Physiology 1
PHGY 210 (3) Mammalian Physiology 2
PHGY 212 (1) Introductory Physiology Laboratory 1
PHGY 213 (1) Introductory Physiology Laboratory 2

U2 Required Courses (16 credits)

BIOC 311 (3) Metabolic Biochemistry
BIOL 301 (4) Cell and Molecular Laboratory
PHAR 300 (3) Drug Action
PHAR 301 (3) Drugs and Disease
PHAR 303 (3) Principles of Toxicology

U3 Required Courses (18 credits)

* PHAR 599D1 and PHAR 599D2 are taken together.

PHAR 503 (3) Drug Design and Development 1
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PHAR 562 (3) General Pharmacology 1
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PHAR 599D1* (3) Pharmacology Research Project
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Complementary Courses (18 credits)

18 credits selected as follows:

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9 credits selected from the following upper-level science courses:

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* Note: Students may take either ANAT 458 or BIOC 458.

Attach extra page(s) as needed

7.0 List of existing program and proposed program

** Note: Students may take either CHEM 504 or PHAR 504.

ANAT 321 (3) Circuitry of the Human Brain
ANAT 365 (3) Cellular Trafficking
ANAT 458* (3) Membranes and Cellular Signaling
BIOC 312 (3) Biochemistry of Macromolecules
BIOC 450 (3) Protein Structure and Function
BIOC 454 (3) Nucleic Acids
BIOC 458* (3) Membranes and Cellular Signaling
BIOL 300 (3) Molecular Biology of the Gene
BIOL 303 (3) Developmental Biology
BIOL 306 (3) Neural Basis of Behaviour
BIOL 314 (3) Molecular Biology of Oncogenes
BIOT 505 (3) Selected Topics in Biotechnology
CHEM 302 (3) Introductory Organic Chemistry 3
CHEM 502 (3) Advanced Bio-Organic Chemistry
CHEM 504** (3) Drug Design and Development 2
EXMD 504 (3) Biology of Cancer
EXMD 511 (3) Joint Venturing with Industry
MIMM 314 (3) Immunology
MIMM 387 (3) Applied Microbiology and Immunology
MIMM 414 (3) Advanced Immunology
NEUR 310 (3) Cellular Neurobiology
PATH 300 (3) Human Disease
PHAR 504** (3) Drug Design and Development 2
PHGY 311 (3) Channels, Synapses & Hormones
PHGY 312 (3) Respiratory, Renal, & Cardiovascular
Physiology
PHGY 313 (3) Blood, Gastrointestinal, & Immune Systems
Physiology
PHGY 314 (3) Integrative Neuroscience
PHGY 520 (3) Ion Channels
PSYC 311 (3) Human Cognition and the Brain
PSYT 455 (3) Neurochemistry

~~** Note: Students may take either CHEM 504 or PHAR 504.~~

ANAT 321 (3) Circuitry of the Human Brain
ANAT 365 (3) Cellular Trafficking
ANAT 458* (3) Membranes and Cellular Signaling
BIOC 312 (3) Biochemistry of Macromolecules
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BIOL 303 (3) Developmental Biology
BIOL 306 (3) Neural Basis of Behaviour
BIOL 314 (3) Molecular Biology of Oncogenes
BIOT 505 (3) Selected Topics in Biotechnology
CHEM 302 (3) Introductory Organic Chemistry 3
CHEM 352 (3) Structural Organic Chemistry
CHEM 382 (3) Organic Chemistry: Natural Products
CHEM 502 (3) Advanced Bio-Organic Chemistry
CHEM 504 (3) Drug Design and Development 2
CHEM 522 (3) Stereochemistry
CHEM 552 (3) Physical Organic Chemistry
**EXMD 401 (3) Physiology & Biochemistry Endocrine
Systems**
EXMD 504 (3) Biology of Cancer
EXMD 511 (3) Joint Venturing with Industry
MIMM 314 (3) Immunology
MIMM 387 (3) Applied Microbiology and Immunology
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Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

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Attach extra page(s) as needed

9. Approvals

Routing Sequence	Name	Signature	Date
Department	<input type="text"/>	<input type="text"/>	<input type="text"/>
Curric/Acad Committee	<input type="text"/>	<input type="text"/>	<input type="text"/>
Faculty 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
Faculty 2	<input type="text"/>	<input type="text"/>	<input type="text"/>
Faculty 3	<input type="text"/>	<input type="text"/>	<input type="text"/>
SCTP	<input type="text"/>	<input type="text"/>	<input type="text"/>
GS	<input type="text"/>	<input type="text"/>	<input type="text"/>
APPC	<input type="text"/>	<input type="text"/>	<input type="text"/>
Senate	<input type="text"/>	<input type="text"/>	<input type="text"/>

Submitted by

Name

Phone

Email

Submission Date

To be completed by ARR:

CIP Code

8.0 Consultation with

Related Units

Yes No

Financial Consult

Yes No

Attach list of consultations