



Faculty of Science
Office of the Dean of Science
853 Sherbrooke St. W.
2nd Floor, Dawson Hall, Room 210

Dean of Science, R. B. Lennox

2015-16 Undergraduate Laboratory Improvement Fund (14-15 Academic Year)

Detailed in the Table below is the allocation to your Department from the Undergraduate Laboratory Fund for 2014-2015. We ask that you try to spend the allocation by August 31, 2016. However if you are unable to do so, you need to present a plan for the unspent funds in your reporting.

These funds are made available to Departments to assist in the upgrading of equipment in undergraduate laboratories. The funding is created by a contribution from each undergraduate student to the program. The total contribution for 2014-2015 was \$228,768.

A condition of a Department accepting these funds from the Science Undergraduate Student Society is that you will match the allocation. The allocation and match must involve the purchase or upgrading of facilities (equipment, instruments, etc.) used in undergraduate laboratory courses. The Faculty of Medicine has also agreed to this condition. If you cannot accept this condition please advise Angela Mansi by email at secdean.science@mcgill.ca and she will remove you from the allocation.

Departments are urged to consult with the departmental undergraduate student representatives on the use of these funds. A report on your use of these funds is due September 15, 2016.

Departments are requested to ensure that all equipment purchased with monies from this fund bears a sticker indicating that it was paid for by the Science Undergraduate Laboratory Improvement Fund.

Allocations have been deposited into the same FOAPAL as in previous years. If for some reason there is to be a change please contact Angela Mansi by email as above.

Department	Allocation
Atmospheric & Oceanic Sciences	4,813
Biology	26,205
Chemistry	17,366
Computer Science	18,375
Earth & Planetary Sciences	6,409
Geography	4,881
Mathematics & Statistics	16,175
Physics	20,532
Psychology	16,319
Anatomy & Cell Biology	24,885
Biochemistry	15,362
Microbiology & Immunology	15,430
Pharmacology	20,963
Physiology	21,047
TOTAL ALLOCATION	\$228,768

Cc: Angela Santullo, Finance Office, Faculty of Medicine
Angela Mansi, Assistant to the Dean (Academic Staffing)
Elaine Davis, Associate Dean, Faculty of Medicine
Kelly Cornford, Manager, Financial Affairs, Faculty of Science

SUS Undergraduate Laboratory Improvement Allocation Report

Please input the required data into the cells highlighted in yellow

Department: Atmospheric & Oceanic Sciences
 Fiscal Year: 2015-2016
 Prepared By: Lucy Nunez

Carry Forward from Previous Year Contributions 112.43

Current Year Contributions

Faculty of Science Contribution: 4,813.00
 Required Departmental Matching Contribution: 4,813.00

Balance of Unspent Funding Prior to Application of Current Year Expenses **9,738.43**

Current Year Expenses

Quotes/Encumbrance should not be listed below. They should only be included in the reporting once the encumbrance is released and the expense is actualized. If the expense is meant to be applied to this year's funding, the amount should be carried forward until an invoice is paid.

Item	Detailed Explanation of Expenses including course # or space that the expense will service	Fund Where Expense is Charged	McGill Reference #	Cost
Ex 1	2 Intel Processors for the Ugrad Computer lab located in Dawson Hall Room 217	111222	I1234567	
Ex 2	5 Copies of <i>Principles of Seismology</i> Textbook for EPSC 201 paid by Pcard	222333	IC111254	
1	OptiPlex 9020 MT i7-4790 8GB/500GB R7 250 McGill Image Dell Mointor; D-Link Wireless Desktop Adaptor & Pheripherals	271074 170752	J1065975	1,270.82
2				
3				
4				
5				
6				
7				

Total Current Year Expenses **1,270.82**

Remaining Balance to be Carried Forward **8,467.61**

Additional Information (Explanation on how carry forward funding will be used, quotes or known commitments to be expensed in following year, etc.)

Due to staff changes at AOS we were not able to spend all the contribution this year. Once the new IT staff member joins my team we will look into how we can allocate these funds for our laboratories.

Undergraduate Laboratory Improvement Fund					
Department of Biology					
2014-2015					
2014-2015			Item	Amount	Course
Allocation Received from the Faculty of Science	\$26,205.00				
		150718	Heratherm Incubator (51028063H) and Water Bath (1546210Q) <i>Fisher Scientific Company</i>	\$5,359.52	BIOL111/112
			MBAIR 13.3/1.6 GHZ/8GB/128GB-U GP (3) (MMGF2LL/A) Apple USB Superdrive -USA (MD564LL/A) <i>Apple Canada Inc</i>	\$3,792.00	BIOL111/112
			MBAIR 13.3/1.6GHZ/8GB/128GB-U GP (2) MMGF2LL/A <i>Apple Canada Inc</i>	\$2,457.41	BIOL206
			APP for MB/MB AIR 13inch MB PRO GP (2) (52506Z/A) <i>Apple Canada Inc</i>	\$425.61	BIOL206
			Deep Red (655nm) LUXEON Rebel LED on a SinkPAD-II 20mm Tri-Star Base - 1920 mW@ 700mA (Sp-03-D2) <i>Luxeon StarLEDS</i>	\$1,989.11	BIOL389
			Water Bath 28L (89501-476) Freezer UC 4.2C (89425-610) <i>VWR International Co.</i>	\$5,214.85	BIOL301(W)
				\$45,443.50	
12-Sep-16					

SUS Undergraduate Laboratory Improvement Allocation Report

Please input the required data into the cells highlighted in yellow

Department: Chemistry
 Fiscal Year: 2014-2015 Allocation tranfered in 2015-2016
 Prepared By: Sandra Aerssen

Carry Forward from Previous Year Contributions 47,732.91

Current Year Contributions

Faculty of Science Contribution: 17,366.00
 Required Departmental Matching Contribution: 17,366.00

Balance of Unspent Funding Prior to Application of Current Year Expenses **82,464.91**

Current Year Expenses

Quotes/Encumbrance should not be listed below. They should only be included in the reporting once the encumbrance is released and the expense is actualized. If the expense is meant to be applied to this year's funding, the amount should be carried forward until an invoice is paid.

Item	Detailed Explanation of Expenses <u>including course # or space that the expense will service</u>	Fund Where Expense is Charged	McGill Reference #	Cost
Ex 1	2 Intel Processors for the Ugrad Computer lab located in Dawson Hall Room 217	111222	I1234567	
Ex 2	5 Copies of <i>Principles of Seismology</i> Textbook for EPSC 201 paid by Pcard	222333	IC111254	
1	Surface & Wireless Temperature, PH, & Gas Sensors, PL-Spectrovis (Merlan Scientific)	270803	P0557650	9,961.43
2	6 - Mettler Precision Balalnce (VWR)	233328	P0543663	6,544.33
3	Accessories for Methrom 888 Titration Analyzer System (Mehrohms Canada)	233328	P0522928	3,276.11
4	4 ea LABQ Armor & Stand and LABQ Viewer Software	233328	P0514927	256.39
5	3 - Temperature Controllers - VWR	233328	P0512327	1,101.44
6	6 - Tempeature Sensors - Chemglass Life Sciences	233328	P0512325	1,028.38
7	4 Hotplate stirrer kits - Chemglass Life Sciences	150750	P0542860	3,546.69

Total Current Year Expenses **25,714.77**

Remaining Balance to be Carried Forward **56,750.14**

Additional Information (Explanation on how carry forward funding will be used, quotes or known commitments to be expensed in following year, etc.)

The above purchases were for the General, Analytical, Physical teaching laboratories. The purchases for the organic teaching laboratories are on hold to see when that lab will be renovated. The projected renovation of the organic lab is summer 2017 but may only be in summer 2018.

Undergraduate Laboratory Improvement Allocation Report

Please input the required data into the cells highlighted in yellow

Department: School of Computer Science
 Fiscal Year: 2014-2015 Allocation Transferred in May 2016

Carry Forward from Previous Year Contributions -3,717.78

Current Year Contributions

Faculty of Science Contribution:	18,375.65
Required Departmental Matching Contribution:	18,375.65

Balance of Unspent Funding Prior to Application of Current Year Expenses **33,033.52**

Current Year Expenses

Quotes/Encumbrance should not be listed below. They should only be included in the reporting once the encumbrance is released and the expense is actualized. If the expense is meant to be applied to this year's funding, the amount should be carried forward until an invoice is paid.

Item	Detailed Explanation of Expenses <u>including course # or space that the expense will service</u>	Fund Where Expense is Charged	McGill Reference #	Cost
Ex 1	2 Intel Processors for the Ugrad Computer lab located in Dawson Hall Room 217	111222	I1234567	
Ex 2	5 Copies of <i>Principles of Seismology</i> Textbook for EPSC 201 paid by Pcard	222333	IC111254	
1	18x P2317H LED screens	201733	I2074837	5,701.40
2	Security - Locks	201733	IC815986	377.70
3	Security - Anchors + clips	201733	IC815985	544.41
4	Dell workstations 10x Optiplex 7440 AiO (3.4GHz Intel Core i7, 8G ram, 500GB SATA HD)	201733	I2098352	15,007.86
5	Dell workstations 2x Optiplex 7440 AiO	172012	P0599994	3,194.52
6	NAS appliance 192TB usable storage (Split 70/30 between 172012 and 175762)	172012/175762	P0613500	70,583.40

Total Current Year Expenses **95,409.29**

Remaining Balance to be Carried Forward **-62,375.77**

Additional Requirements (Explanation on how carry forward funding will be used, quotes or known commitments to be expensed in following year, etc.)

We bought a replacement NAS appliance for our storage needs moving forward. This storage represents our undergraduate accounts. We will carry forward amount to our capital equipment funds next year as matching funds for the next couple of years.



McGill

Memorandum

From: Jeff McKenzie
Chair
Earth & Planetary Sciences

Date: 15 September 2016

To: Bruce Lennox
Dean
Faculty of Science
Dawson Hall

Subject: 2015-2016 Undergraduate
Laboratory Improvement
Fund Allocation

Please be advised that the Department of Earth & Planetary Sciences' 2014-2015 Undergraduate Laboratory Improvement Fund Allocation of \$6,409.00 was used towards the purchase of the following equipment/tools in consultation with the EPS undergraduate students:

Geochemistry	607.07
Looking into the Earth: An Introduction to Geological Geophysics	386.07
Principles of Igneous and Metamorphic Petrology	424.78
Applied Geophysics	473.55
Invertebrate Paleontology and Evolution	407.53
Applied Hydrogeology	471.17
Bruntons	3,806.81
Microscope Repairs/Maintenance	6,565.07

JEFFREY McKENZIE, Chair

Undergraduate Laboratory Improvement Allocation Report

Please input the required data into the cells highlighted in yellow

Department: Geography

Fiscal Year: 2014-15 Allocation Transferred in 2015-16

Carry Forward from Previous Year Contributions

Current Year Contributions

Faculty of Science Contribution:	4,881.62
Required Departmental Matching Contribution:	4,881.62

Balance of Unspent Funding Prior to Application of Current Year Expenses

9,763.24

Current Year Expenses

Quotes/Encumbrance should not be listed below. They should only be included in the reporting once the encumbrance is released and the expense is actualized. If the expense is meant to be applied to this year's funding, the amount should be carried forward until an invoice is paid.

Item	Detailed Explanation of Expenses <u>including course # or space that the expense will service</u>	Fund Where Expense is Charged	McGill Reference #	Cost
1	Flash Bay Inc (USB keys to hand out to Undergrad students)	159896	IC697956	3,907.43
2	Canada Computers (to upgrade computer parts in GIC)	159896	I1558386	3,092.28
3	WWW.NEWEGG.COM (computer monitor upgrade)	159896	IC695269	893.86
4	WWW.NEWEGG.COM (software upgrade for GIC computers)	159896	IC729879	1,260.39
5	WWW.NEWEGG.COM (software upgrade for GIC computers)	159896	IC713515	847.78

Total Current Year Expenses

10,001.74

Remaining Balance to be Carried Forward

-238.50

Additional Requirements (Explanation on how carry forward funding will be used, quotes or known commitments to be expensed in following year, etc.)

Undergraduate Laboratory Improvement Allocation Report

Please input the required data into the cells highlighted in yellow

Department: Mathematics and Statistics

Fiscal Year: 2014-2015

Carry Forward from Previous Year Contributions

Current Year Contributions

Faculty of Science Contribution:	16,175.00
Required Departmental Matching Contribution:	16,175.00

Balance of Unspent Funding Prior to Application of Current Year Expenses

32,350.00

Current Year Expenses

Quotes/Encumbrance should not be listed below. They should only be included in the reporting once the encumbrance is released and the expense is actualized. If the expense is meant to be applied to this year's funding, the amount should be carried forward until an invoice is paid.

Item	Detailed Explanation of Expenses <u>including course # or space that the expense will service</u>	Fund Where Expense is Charged	McGill Reference #	Cost
Ex 1	2 Intel Processors for the Ugrad Computer lab located in Dawson Hall Room 217	111222	I1234567	
Ex 2	5 Copies of <i>Principles of Seismology</i> Textbook for EPSC 201 paid by Pcard	222333	IC111254	
1				
2				

Total Current Year Expenses

Remaining Balance to be Carried Forward

32,350.00

Additional Requirements (Explanation on how carry forward funding will be used, quotes or known commitments to be expensed in following year, etc.)

We have a commitment from our undergraduate student that the funds will go towards the Burnside Hall Study and Work Space on the 11th floor. We expect the renovations to begin in January 2017.

Orders: ULIF Physics dept

31 Aug 2016 11:09:01 Page 1 of 1

Aug. 23, 2016 ver.

Current filter: (VERIFIED=.F..AND.SMATCH((BUDGET_CODE),("**ULIF**")))

Current order Year+Budget_Code+cdate(Date)+recno("orders")
Year
Budget_Code

Layout name R3 ver_for_Faculty_multi

Year: **2015-16**

budget code		Match ulif						
Ctr	Bctr	Date	Brief details	Inv #	Amnt n Tx	Amnt w Tx	Amnt w Rebate	
1	1	1 Sep 2015	Collisions in two dimensions	eq3490	\$131.35	\$151.02	\$140.46	
2	2	12 Nov 2015	Arduino	eq3751 / eq3752	\$1,777.90	\$2,044.14	\$1,901.23	
3	3	8 Dec 2015	Radioactive Source for Mossbauer Exp .(1/2 Research & 1/2 ugrads)		\$3,570.04	\$4,104.65	\$3,817.68	
4	4	9 Dec 2015	Cadium lamp for Zeeman exp.	eq3775	\$1,929.58	\$2,218.53	\$2,063.43	
5	5	14 Jul 2016	Radioactive Sources		\$3,300.00	\$3,794.18	\$3,528.91	
6	6	29 Aug 2016	Partial order of Franck-Hertz system 15% (To be ordered)	eq3970	\$8,038.00	\$9,241.69	\$8,595.58	
total for budget code =					Match ulif	\$18,746.87	\$21,554.21	\$20,047.29

budget code		ULIF						
Ctr	Bctr	Date	Brief details	Inv #	Amnt n Tx	Amnt w Tx	Amnt w Rebate	
7	1	12 Dec 2015	Compression Igniter	eq3645	\$372.00	\$427.71	\$397.80	
8	2	13 May 2016	Pressure sensor	eq3803	\$388.00	\$446.10	\$414.91	
9	3	10 Jun 2016	PASCO Franck-Hertz Argon Tube	eq3805	\$1,455.00	\$1,672.89	\$1,555.93	
10	4	13 Jun 2016	PASCO Power Supply II	eq3804	\$1,762.10	\$2,025.97	\$1,884.33	
11	5	23 Jun 2016	Franck-Hertz exp Neon	eq3806 / eq3807	\$3,296.39	\$3,790.02	\$3,525.05	
12	6	3 Aug 2016	Motion sensors	eq3808	\$1,250.00	\$1,437.19	\$1,336.71	
13	7	16 Aug 2016	preamp & scope probe	eq3909 / eq3810	\$3,956.00	\$4,548.41	\$4,230.42	
14	8	17 Aug 2016	Reference temperature calibrator	eq3811	\$1,140.00	\$1,310.71	\$1,219.08	
15	9	22 Aug 2016	DMM for course 102	eq3812 - eq3821	\$3,750.00	\$4,311.56	\$4,010.13	
16	10	24 Aug 2016	power supply	eq3969	\$1,033.00	\$1,187.69	\$1,104.66	
17	11	24 Aug 2016	Van de Graaff Generator	eq3823	\$1,251.07	\$1,438.42	\$1,337.85	
total for budget code =					ULIF	\$19,653.56	\$22,596.68	\$21,016.88

Total for year = **2015-16**

\$38,400.43

\$44,150.89

\$41,064.17

NOTE: Tax Rebate (2012-07-16)	GST	QST
Pay	5.000 %	9.975 %
Rebate	67.000 %	47.000 %

Grand Total:

\$38,400.43

\$44,150.89

\$41,064.17

Prepared by Saverio Biunno

31 Aug 2016

11:09:01

SUS Undergraduate Laboratory Improvement Allocation Report

Please input the required data into the cells highlighted in yellow

Department: Psychology

Fiscal Year: 2014-15 Contribution Allocated in 2015-16

Carry Forward from Previous Year Contributions

Current Year Contributions

Faculty of Science Contribution:	16,319.00
Required Departmental Matching Contribution:	16,319.00

Balance of Unspent Funding Prior to Application of Current Year Expenses

32,638.00

Current Year Expenses

Quotes/Encumbrance should not be listed below. They should only be included in the reporting once the encumbrance is released and the expense is actualized. If the expense is meant to be applied to this year's funding, the amount should be carried forward until an invoice is paid.

Item	Detailed Explanation of Expenses <u>including course # or space that the expense will service</u>	Fund Where Expense is Charged	McGill Reference #	Cost
Ex 1	2 Intel Processors for the Ugrad Computer lab located in Dawson Hall Room 217	111222	I1234567	
Ex 2	5 Copies of <i>Principles of Seismology</i> Textbook for EPSC 201 paid by Pcard	222333	IC111254	
	None			

Total Current Year Expenses

Remaining Balance to be Carried Forward

32,638.00

Additional Information (Explanation on how carry forward funding will be used, quotes or known commitments to be expensed in following year, etc.)

Given the renovations in Stewart Biology, these funds will be carried forward to be used once the renovations are complete. We along with the students are reluctant to make any purchases before we see the space we are moving into.

Undergraduate Laboratory Improvement Allocation Report

Please input the required data into the cells highlighted in yellow

Department: Anatomy & Cell Biology
 Fiscal Year: 2014-15 Allocation Transferred in 2015-16

Carry Forward from Previous Year Contributions (beginning balance September 1, 2015) 64,338.78

Current Year Contributions

Faculty of Science Contribution: 24,885.16
 Required Departmental Matching Contribution: 24,885.16

Balance of Unspent Funding Prior to Application of Current Year Expenses **114,109.10**

Current Year Expenses

Quotes/Encumbrance should not be listed below. They should only be included in the reporting once the encumbrance is released and the expense is actualized. If the expense is meant to be applied to this year's funding, the amount should be carried forward until an invoice is paid.

Item	Detailed Explanation of Expenses <u>including course # or space that the expense will service</u>	Fund Where Expense is Charged	McGill Reference #	Cost
1	Audio-Visual Equipment	271700	Listed on next sheet	1,520.63
2	Contract Services	271700	Listed on next sheet	1,235.60
3	Nicole Ventura's salary	271700	Listed on next sheet	20,719.63
4	Repairs/Maintenance	271700	Listed on next sheet	4,536.86
5	Internet	271700	Listed on next sheet	107.52
6				
7				

Total Current Year Expenses **28,120.24**

Remaining Balance to be Carried Forward **85,988.86**

Additional Requirements (Explanation on how carry forward funding will be used, quotes or known commitments to be expensed in following year, etc.)

The carry forward balance will be addressed. A plan for the use of these funds will be developed and put in palce to meet the needs of laboratory infrastructure used by undergraduate Anatomy students.

**Department of Biochemistry
Laboratory Improvement Fund 271600
Award Year 2014-2015**

AWARD YEAR: 2014-2015			
Spending of Available Funding: Sept. 2015-Aug. 2016		2015/2016	
Balance carried forward from year Sept., 2014-Aug., 2015		-\$16.27	
Science 2014-2015 Contribution (Received April 30, 2016)		\$15,362.20	
Medicine 2014-2015 Contribution (Received July 6, 2016)		\$15,362.00	
Available Funding			\$30,707.93
Brief explanation of expenses.			
Calibration of our student's micropipettes			
One dry bath to heat small tubes		VWR PO#	
One block for the dry bath to hold the small tubes		VWR PO#	
Eight new micropipettors to replace broken/unrepairable ones			
Five vortexes to replace old broken ones			
Upgrade/replace four broken Protein electrophoresis units		BIORAD PO#	
Buy new electrophoresis combs to replace broken ones		BIORAD PO#	
Three new DNA/RNA mini electrophoresis units to supplement supply		BIORAD PO#	
Three new power supplies for the new electrophoresis units		BIORAD PO#	
Two new PCR machines to be used exclusively by the student labs		BIORAD PO#	
Luminometer upgrade two read two tubes at a time.			
Two new Trans-Blot Turbo Transfer System for the new experiment.			
Itemized list of expenses			
		Base Cost	
Calibration of micropipettes (Analytiqs)		\$717.54	
Dry Bath and block both on VWR PO# P0599932		\$605.25	
Eight micropipettors (Mandel PO# P0601110)		\$1,992.00	
Mandel shipping charge		\$20.00	
Five vortexes (Harvard Apparatus Canada PO# P0599993)		\$995.00	
Harvard shipping charge		\$16.00	
BIORAD items all on same PO#P0601198		\$16,526.30	
BIORAD shipping charge		\$149.00	
Luminometer upgrade part (Berthold Technologies -US)Part of the total cost of \$1216.64 CAN. Rest of the cost paid by Biochemistry fund		\$800.00	no GST (US)
Two Trans-Blot Turbo Transfer Systems (BIORAD PO# P0601116)		\$4,960.00	
BIORAD shipping charge		\$41.16	
Cost of Equipment before taxes			\$26,822.25
GST (5%)		\$ 1,301.11	
QST (9.975%)		\$ 2,675.52	
<i>less rebates: Tax rebates</i>		\$ 2,129.23	
Net taxes			\$ 1,847.40
Total Purchase Cost			\$28,669.65
Projected Balance after purchase			\$2,038.28

Undergraduate Laboratory Improvement Allocation Report

Please input the required data into the cells highlighted in yellow

Department: Microbiology & Immunology
 Fiscal Year: 2014-15 Allocation Transferred in 2015-16

Carry Forward from Previous Year Contributions 34,465.13

Current Year Contributions

Faculty of Science Contribution: 15,430.60
 Required Departmental Matching Contribution: 15,430.60

Balance of Unspent Funding Prior to Application of Current Year Expenses **65,326.33**

Current Year Expenses

Quotes/Encumbrance should not be listed below. They should only be included in the reporting once the encumbrance is released and the expense is actualized. If the expense is meant to be applied to this year's funding, the amount should be carried forward until an invoice is paid.

Item	Detailed Explanation of Expenses <u>including course # or space that the expense will service</u>	Fund Where Expense is Charged	McGill Reference #	Cost
Ex 1	Work study student recovery from previous year (2014-15) payments	271677	Listed on next sheet	-1,167.66
Ex 2	Student for analysis of 212 lab results	271677	Listed on next sheet	2,000.00
Ex 3	Material & Supplies for Lab Courses 212, 384, 385, 413 Eg. Pipettors, 8-channel pipetors, hemocytometers, DNA gel boxes	271677	Listed on next sheet	19,787.48
Ex 4	Repairs & Maintenance for labs 212, 384, 385, 413 Including relocation, renocation and re-certification of lab hoods	271677	Listed on next sheet	3,388.46
Ex 5	Equipment Eg. dry bath incubator, microcentrifuges, workstations for UG lounge space, microscopes	271677	Listed on next sheet	30,371.53
Ex 6	Stools for labs 212, 384, 385, 413	271677	Listed on next sheet	1,963.23

Total Current Year Expenses **56,343.04**

Remaining Balance to be Carried Forward **8,983.29**

Additional Requirements (Explanation on how carry forward funding will be used, quotes or known commitments to be expensed in following year, etc.)

Balance will be used for BioRad Quote# 16-Q46152V2. Quote includes an iMark Microplate Absorbance Reader, PCR Thermal Cycler, Trans-Blot Turbo Transfer System.



McGill

Department of Pharmacology and Therapeutics

Budget and Forecast Report – SUS Undergraduate Lab Improvement Award

Fund 231661

Dr. Gerhard Multhaup – September 2016

The Undergraduate Lab Improvement award initiative was provided to the Department Pharmacology and Therapeutics, from the Faculty of Science, with matching funds from the Faculty of Medicine. All expenses are directly related to the PHAR390 undergraduate practical lab course. The purchases over the fiscal periods consisted of items and equipment for the operations of the course. See below a comprehensive list of expenditures. Student evaluations have been very positive and the Department and the Faculty of Medicine see pronounced value and potential in this course, to the credit of these funds from the Faculty of Science.

Most recently, we purchased a new Amersham Imager 600 UV with the touch screen monitor, along with the complimentary Mitsubishi thermal printer. This important piece of equipment is not only crucial to the operations of the course, but this particular model is very user friendly, thus the students can learn the usage with ease.

For the future, we intend on running this course throughout the academic year, each semester and continuing in the summer. The costs vary slightly year to year; since this is a relatively new course, equipment purchases are intermittent.

The Faculty of Medicine portion of \$61,900 that is due to our Department will be spent on a new MultiMode plate reader (luminescence/fluorescence/absorbance). This will cost approximately \$40,000. The remainder of the funds are earmarked for statistical analysis software and licenses as well as a class 2 biosafety cabinet.

EXPENDITURES

2013/2014

		Balance	
Beginning Balance as of			
May 1, 2013		24,076.34	
Transfer In for Undergrad			Balance as of
Lab Improvement	13,984.47	<u>38,060.81</u>	April 30, 2014

2014/2015

Expenditures for			
PHAR390 2014/2015			
Bio-Rad Laboratories			
(Canada) Ltd.	Thermal Cycler	3,207.80	

Fisher Scientific	Vortex Mixer-Standard, Corning Pipettor, Timer Fisher, Kit Bench PH Meter	14,104.39	
Goods and Services Tax - Federal		(552.01)	
M.H. Montreal Biotechnologies Inc	Block Digital Dry Bath	1,632.64	
Quebec Sales Tax - Provincial		(772.51)	
Total		17,620.31	<u><u>20,440.50</u></u>
Transfer IN			
Transfer in 2015/2016			
Transfer In for Undergrad Lab Improvement 13/14		8,337.41	
Transfer In for Undergrad Lab Improvement 13/14 & 14/15		18,640.16	
		26,977.57	<u><u>47,418.07</u></u>
Balance as of April 30, 2014		38,060.81	
Transfer IN		26,977.57	
Expenditures		(17,620.31)	
Encumbrance		(10,858.21)	<u><u>36,559.86</u></u> Balance as of April 30, 2015

2015/2016

**Expenditures for
PHAR390 2015/2016**

Bio-Rad Laboratories (Canada) Ltd.	Mini-Protean Tetra Cell, Mini Trans-Blot Module, PowerPac HC Power Supply, UltraRocker Rocking Platform, Sub-Cell GT Electrophoresis Cell	15,251.98	
chem-storeJul15-Aug15		52.27	
Fisher Scientific	Mini Microcentrifuge, Ice Bucket, Retriever Stir Bar, Stir Bar Octagonal, TT Rack FB, Bottle Media Pyrex, Stirrer Scholar, Portable Pipet aid and Filler	7,906.22	
Goods and Services Tax - Federal		(947.26)	
M.H. Montreal Biotechnologies Inc	Sigma Microcentrifuge, Sigma Refrigerated Microcentrifuge	8,082.74	
Quebec Sales Tax - Provincial		(1,325.62)	
Ultident	Tube Rack	361.37	
VWR International Co.	Flask WD Mouth SCL, Beaker Griffin, Cylinder PolyPro, Carboy w/Spigot	907.71	
Total		30,289.41	<u><u>17,128.66</u></u>

Transfer INTransfer In for Undergrad
Lab Improvement 14/15 &
15/16

20,963.49

38,092.15Balance as of
April 30, 2016**2016/2017**Salary of Technician
PHAR390*

905.20

Cedarlane Laboratories
LtdMonoclonal Antibody (Clone CX111), COX-2
(human) Polyclonal Antibody

942.11

Diamed Lab Supplies Inc
Fisher Scientific

Safe Red

40.24

Blotting Tweezer, Tromethamine

746.01

Goods and Services Tax -
Federal

(100.55)

Promega Corporation

Anti-Mouse IgG HRP Conjugate, Anti-Rabbit
IgG (H&L) HRP Conjugate, P450-Glo(TM)
CYP2D6 Assay 10ml

526.02

Quebec Sales Tax -
Provincial

(140.72)

Sarstedt Inc.

Cuvette Semi Micro, Square Botto, Tube,
Pipette Tips, Tissue Culture Plate, Adherent
Cell, Tissue Culture Dish

642.54

Sigma-Aldrich Canada Co.

Phosphatase, Alkaline (calf intestine), 5G-
Luminol

366.21

New England Biolabs

Beta-Actin (*h10D10) Mouse mAb

187.30

Grand Total

4,114.36

33,977.79GE Healthcare Bio-
Sciences Company

GE Amersham 600 Imager

28,696.38

Thermo Fisher Scientific
Bioscience

Mitsubishi Thermal Printer

2,375.91

31,072.29

2,905.50

Pending Transactions

1,193.41

**AVAILABLE BALANCE AS
OF AUGUST 24, 2016**1,712.09

271679 Physiology Sci Lab Improvement Fund
Report of expenses for the period May 1, 2015 to April 30, 2016

August 8th, 2016

FY16

Beginning Balance..... \$82,674.78
 UgradLabImprov Earned 14-15for15-16 \$21,047.09

Detail of Expenses

Date	Vendor	Description	doc#	Amount
1/6/2016	Carl Zeiss Canada Ltd	Purchase and installation of microscope (PHGY560)	I1963923	\$67,070.73
10/27/2015	World Precision Instruments	Electrode holder with silver wire (PHGY212)	40076481	\$ 13.42
10/13/2015	World Precision Instruments		I1912123	\$ 980.24
9/21/2015	Mettler-Toledo Inc	Pipet-Lite starter kits (3)(PHGY212/213)	I1900490	\$ 2,620.84
8/26/2015	Fisher Scientific	Hand-held tally (PHGY212)	IV037886	\$ 45.97
8/13/2015	Fisher Scientific		IV036927	\$ 30.65
1/28/2016	Memoland	Purchase and installation of computer equipment - upgrade equipment (PHYG560)	I1974976	\$10,339.34
10/6/2015	Affiliated Customs Brokers Limited		IM108933	\$ 30.19

Total Expenses \$81,131.38

End-Year Surplus(Deficit)..... \$22,590.49

**All amounts net of taxes*