

1 IUNW Library Budget

FUND	2006-2007	2007-2008
GENERAL	\$34,135.00	\$33,939.00
BINDING	\$5,338.00	\$7,151.00
SPECIAL DEVELOPMENT	\$45,793.00	\$54,372.00
INDEXES	\$81,328.00	\$87,052.00
REFERENCE	\$32,756.00	\$40,481.00
SUBTOTAL	\$199,350	\$223,995
MINORITY	\$4,333.00	\$3,774.00
ALLIED HEALTH	\$9,393.00	\$8,696.00
BIOLOGY	\$13,323.00	\$11,934.00
BUSINESS	\$26,187.00	\$22,756.00
CHEMISTRY	\$6,406.00	\$5,093.00
COMPUTER SCIENCE	\$7,492.00	\$6,852.00
DENTAL EDUCATION	\$4,241.00	\$3,796.00
ECONOMICS	\$2,062.00	\$1,819.00
EDUCATION	\$18,757.00	\$16,909.00
ENGLISH	\$7,524.00	\$6,335.00
FINE ARTS	\$4,626.00	\$4,157.00
FRENCH	\$1,113.00	\$925.00
GEOSCIENCES	\$4,160.00	\$3,213.00
GERMAN	\$370.00	\$327.00
HISTORY	\$5,573.00	\$5,030.00
HPER	\$2,467.00	\$2,450.00
LABOR STUDIES	\$3,854.00	\$3,300.00
MATH	\$8,310.00	\$6,796.00
MUSIC	\$449.00	\$410.00
NURSING	\$6,811.00	\$5,838.00
PHILOSOPHY	\$2,192.00	\$2,100.00
PHYSICS/ASTRONOMY	\$2,129.00	\$1,747.00
SPEA	\$22,891.00	\$20,237.00
POLITICAL SCIENCE	\$2,298.00	\$2,016.00
PSYCHOLOGY	\$11,732.00	\$10,831.00
SOCIAL WORK	\$5,490.00	\$5,142.00
SOCIOLOGY	\$8,128.00	\$7,223.00
SPANISH	\$2,368.00	\$2,122.00
SPEECH	\$4,635.00	\$3,944.00
THEATER	\$1,336.00	\$1,233.00
SUBTOTAL	\$200,650	\$177,005
TOTAL	\$400,000.00	\$400,000.00

2 How the budget is calculated

The Library has provided the following abstract definitions of the common categories:

INDEXES in the formula has referred to subscriptions to indexes/databases that are interdisciplinary in nature. GENERAL has referred to periodical subscriptions that are interdisciplinary in nature (benefit more than one dept. or discipline). REFERENCE has referred to print and electronic library resources that are used primarily in our Library Help Desk area such as encyclopedias, dictionaries, directories, biographical resources, etc. BINDING has referred to print resources that need to be reformatted to last longer in our collections or to be made easier to access/handle by our users. SPECIAL DEVELOPMENT has referred to resources that the Library and librarians identify that have value in a particular year that will benefit the campus, have multi-disciplinary importance, and/or are not able to be covered by resources available from the individual depts. in that particular year.

Some detailed information on purchases made from the common categories (GENERAL, BINDING, SPECIAL DEVELOPMENT, INDEXES, and REFERENCE) can be found at [4]-[5]. After these five funds are subtracted from the total library budget, the remainder (\$200,650 in 2006-2007, \$177,005 in 2007-2008) is allocated among the various departments to spend as they see fit. The formula governing this allocation is as follows: For any given department, let h be number of credit hours generated by that department, e.g. [1, column X of sheet A], c be the number of courses taught by that department (weighted so that 100-level courses count as half and 500/600-level courses count as one and a half), e.g. [1, column Y of sheet A], p be the average periodical cost of that department, e.g. [1, column V of sheet A], b be that department's average library budget over the past 7 years, e.g. [1, column S of sheet A]. See also [2]. Then for example (with summations being taken over all departments), a department's library budget for the academic year 2006-2007 was determined by the following formula

$$\left(.1 * \frac{h}{\sum h} + .15 * \frac{c}{\sum c} + .1 * \frac{p \cdot h}{\sum p \cdot h} + .15 * \frac{p \cdot c}{\sum p \cdot c} + .5 * \frac{b}{\sum b} \right) \$200,650 . \quad (1)$$

3 Notes

Note the presence of discipline specific items being purchased from common monies [4]-[5].

Note that p is based on periodicals actually purchased rather than on external measures of a discipline's periodical costs. This has some strange consequences especially in conjunction in the departmental divisions above, e.g. Modern Languages' budget is calculated in three pieces FRENCH, GERMAN, and SPANISH, which decreases their budget. Note all that any journals purchased in bundles would reflect a higher price for a single item.

Note that 000-level courses are neither counted in c nor in h .

Note that the formula (1) gives a heavy weight of .5 to past budgets. This gives the budgetary calculations an incredibly long memory. Suppose that a department doubled in yearly credit hours, h , and number of courses on each level, thus doubling c ; What would happen to their budget in the following years? In the first year following this doubling of enrollment, by how much would their budget increase? What about successive years' budgets? Let's look for example at the sociology department's (so chosen because it has a moderate budget which has been relatively stable over the past seven years) hypothetical budgets under these scenarios. (Assume for now that all other departments remain stagnant.) The current budget is \$8,128. What happens if the Sociology Department doubles c and h in all succeeding years? In the first year following these double enrollments their budget would jump to \$11,727. Succeeding budgets would be \$11,955; \$12,218; \$12,490; \$12,770; \$13,029; \$13,361; and \$13,723. The budget still hasn't doubled 8 years later!

By the time the committee meets in the Fall semester some of next fiscal/academic year's budget will have already been spent. The committee's considerations this semester include:

What data on library expenditures should be provided and in what format?

How should the monies be split between the departmentally allocated portions and the library allocated portion? Once split, how should departmental budgets be apportioned? How should common monies be spent?

References

- [1] The 2006-2007 IUNW Library Budget Spreadsheet
<https://www.iun.edu/~mathpmc/Budget0607.xls>
- [2] The 2007-2008 IUNW Library Budget Spreadsheet
<https://www.iun.edu/~mathpmc/Budget0708.xls>
- [3] Simplified Spreadsheet for 2007-2008 Budget
<https://www.iun.edu/~mathpmc/SimpleBudget0708.xls>
- [4] Purchase and price lists for four of the five common categories and the Math Department (a total of 8 lists)
<https://www.iun.edu/~mathpmc/common0607.htm>
- [5] Spreadsheet containing incomplete data on 4 of 5 common categories for both years 2006-2007 and 2007-2008
<https://www.iun.edu/~mathpmc/all.xls>