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Introductions



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Manager, Higher Education

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Learning Objectives

Identify how cost of academic programs can be understood in relation to revenue

Explain why academic program costs and contribution margins are important to institutions

Review procedures when creating contribution margin models

State of the Industry



How to Recognize the Warning Signs of a Death Spiral — and How Colleges Can Avoid One

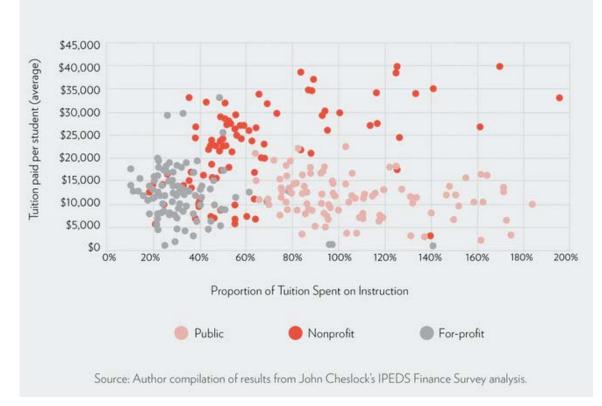
By Scott Carlson and James F. Galbally Jr. | APRIL 22, 2020

- Your institution has never assessed the costs of its operation
- Do not know the cost of programs and departments
- Do not understand the return on investments

https://www.chronicle.com/article/how-to-recognize-the-warning-signs-of-a-death-spiral-and-how-colleges-can-avoid-one/



AVERAGE TUITION AND PROPORTION OF TUITION SPENT ON INSTRUCTION AT THE LARGEST 100 PUBLIC, NONPROFIT, AND FOR-PROFIT SCHOOLS



https://tcf.org/content/report/much-education-students-getting-tuition-dollar/



Financial Challenges

Declining Enrollment

Loss of Government Funding

Decrease in Contributions

Poor Market Performance

Inflation

Increase
Salary and
Benefit Cost

Capital Projects



Union College's Experience with Contribution Margin Modeling





Potential Solutions

Focus on "Top Line"

- Increase enrollment
- Increase tuition rates
- Implement a differential pricing or fee strategies

Cost Containment

- Budget reductions
- Hiring freezes
- Workforce reductions

4

Union College's Experience with Contribution Margin Modeling





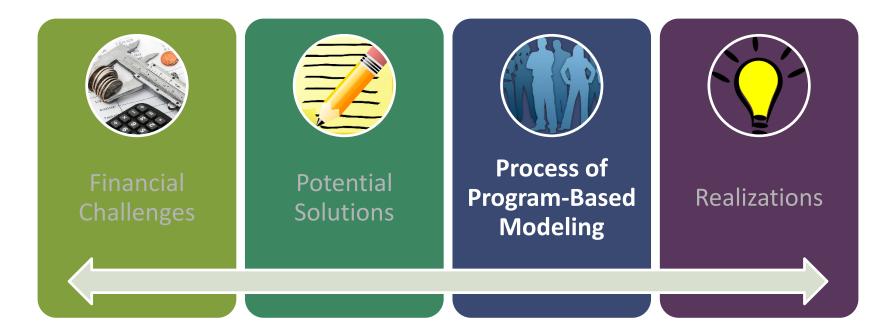
Program-Based Financial Model



This type of financial model allows decisions to be made with an understanding of the impact on specific degrees, programs, or departments instead of broad units or functions.



Union College's Experience with Contribution Margin Modeling

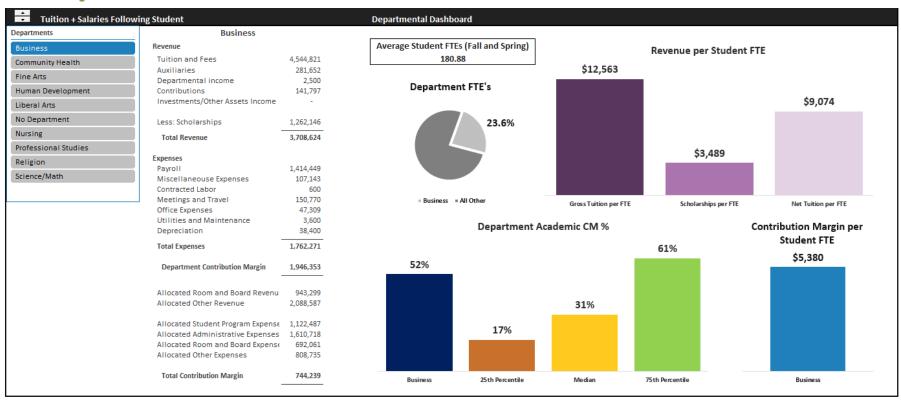






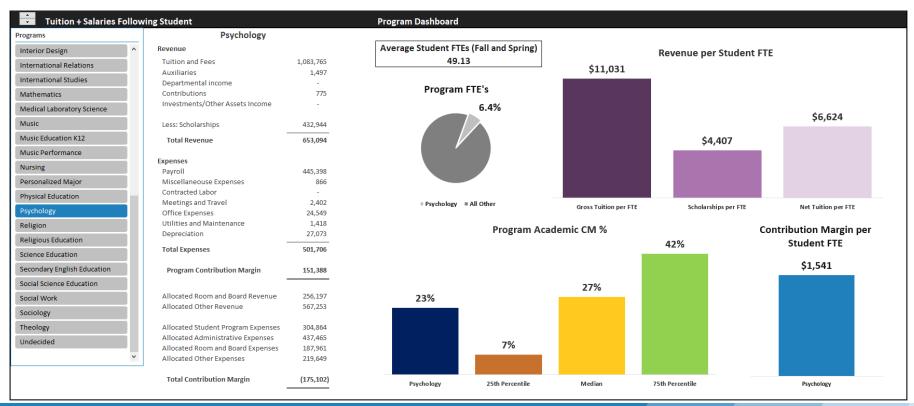
Example of Academic Contribution Margins

Department Dashboard





Program Dashboard





Assign a program to each student

Nursing	
Revenue	
Tuition and Fees	1,730,479
Auxiliaries	174,309
Departmental income	1,545
Contributions	87,571
Investments/Other Assets Income	-
Less: Scholarships	692,014
Total Revenue	1,301,890



1,301,890

Nursing

Revenue

Total Revenue

Tuition and Fees 1,730,479
Auxiliaries 174,309
Departmental income 1,545
Contributions 87,571
Investments/Other Assets Income Less: Scholarships 692,014

Utilize billing system to allocate tuition and fees



1,301,890

Nursing

Revenue

Total Revenue

Tuition and Fees 1,730,479
Auxiliaries 174,309
Departmental income 1,545
Contributions 87,571
Investments/Other Assets Income Less: Scholarships 692,014

Identify other direct program revenue by using the general ledger detail



Nursing

Revenue

Tuition and Fees 1,730,479
Auxiliaries 174,309
Departmental income 1,545
Contributions 87,571
Investments/Other Assets Income

Total Revenue

Less: Scholarships

1,301,890

692,014

Obtain a detail of scholarships granted to each student and allocate discount to the student's program



Step 2: Identifying the Direct Expenses that are incurred by each program

Expenses

Payroll 747,025 Miscellaneouse Expenses 65,876 Contracted Labor 340 Meetings and Travel 93,573 Office Expenses 31,144 Utilities and Maintenance 2,187 Depreciation 23,773 **Total Expenses** 963,917

Allocate faculty's salary and benefits to the classes they teach.

Determine a method to allow the dollar to follow the student



Step 2: Identifying the Direct Expenses that are incurred by each program

Expenses

Payroll

Miscellaneouse Expenses

Contracted Labor

Meetings and Travel

Office Expenses

Utilities and Maintenance

Depreciation

Total Expenses

747,025 65,876

340

93,573

31,144

2,187

23,773

963,917

Allocate other direct program expenses based on coding within the general ledger



Step 3: Calculating Program Contribution Margin

Direct
Program —
Revenue

Direct Program Expenses Program
Contribution
Margin
\$



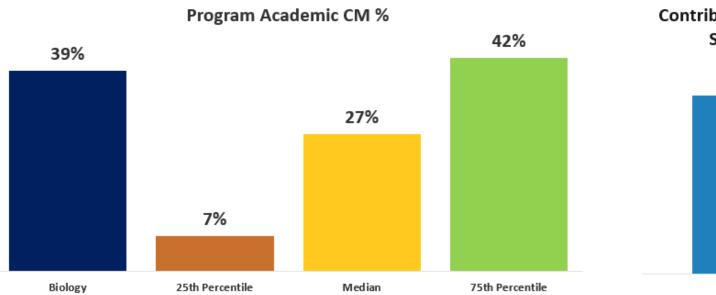
Step 3: Calculating Program Contribution Margin

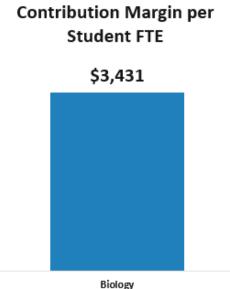
Direct Direct
Program — Program
Revenue Expenses

Direct Program Revenue

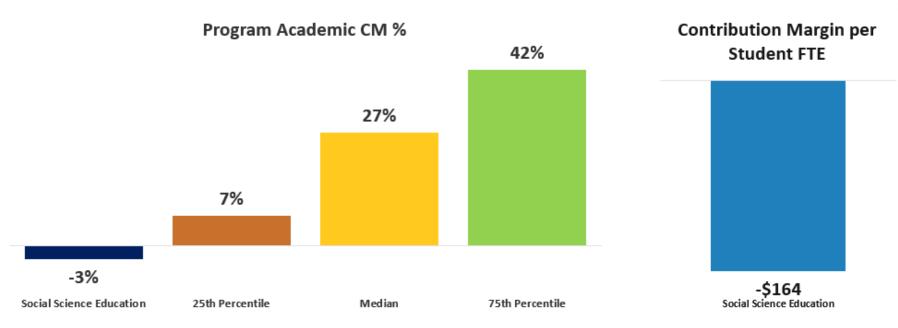
Program
Contribution
Margin
%

Program Contribution Margin (%)





Program Contribution Margin (%)



Step 4: Allocate Overhead Revenue and Expense

Utilities

Building Maintenance

Depreciation

Accounting

Human Resources

Admission

Student Success

Gifts and Pledges

Institutional Aid

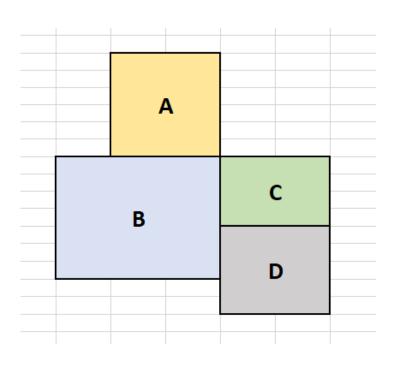


Overhead Allocation - Student Headcount



- Other Personnel Cost
- Other Administrative Expenses
- Marketing
- Financial Aid and Scholarships
- Contributions

Overhead Allocation – Square Footage



- Utilities
- Building Maintenance
- Depreciation

Step 5: Calculate Academic Net Margin

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Total Revenue

Total ___

Academic Net Margin (\$)

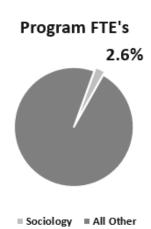


(Total Revenue - Total Expense) Academic Net
Revenue Margin (%)

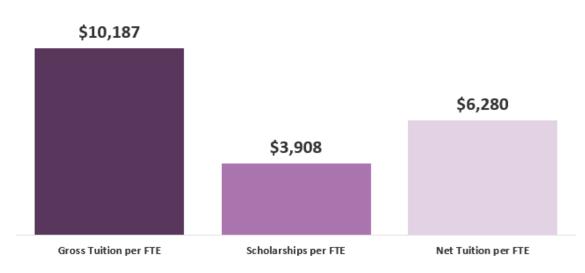
(I)

Dashboard

Average Student FTEs (Fall and Spring) 20.25



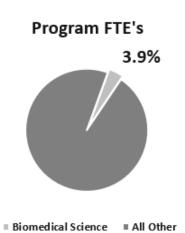
Revenue per Student FTE



Create

Dashboard

Average Student FTEs (Fall and Spring) 29.75

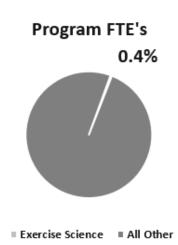


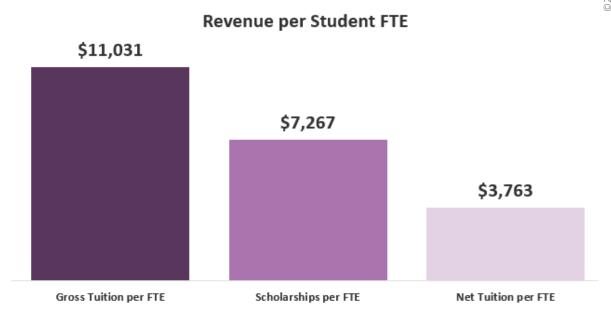
Revenue per Student FTE



Dashboard

Average Student FTEs (Fall and Spring)
3







Union College's Experience with Contribution Margin Modeling





Next Steps



Assemble the correct team

Reach out – we can help!



