

## Colleges of the Fenway ${ }^{-1996-2016}$

## Colleges of the Fenway

 Institute on College Financials April 8, 2016

## Colleges of the Fenway 1996-2016

The Economics of Higher Education Richard Doherty, President, ACIUM

## The Economics of Higher Education

## AICUM Presentation to the Colleges of the Fenway

April 8, 2016

## We are comprised of 58 colleges and universities throughout Massachusetts

 Representing $97 \%$ of the students at MA private colleges- Amherst College
- Anna Maria College
- Assumption College
- Babson College
- Bay Path College
- Becker College
- Bentley University
- Berklee College of Music
- Boston Architectural College
- Boston Baptist College
- Boston College
- Boston University
- Brandeis University
- Cambridge College
- Clark University
- College of the Holy Cross
- Curry College
- Dean College
- Eastern Nazarene College
- Elms College
- Emerson College
- Emmanuel College
- Endicott College
- Fisher College
- Gordon College
- Hampshire College
- Harvard University
- Laboure College
- Lasell College
- Lesley University
- MCPHS University
- Massachusetts Institute of Technology
- Merrimack College
- MGH Institute of Health Professions
- Mount Holyoke College
- Mount Ida College
- Newbury College
- New England College of Optometry
- Nichols College
- Northeastern University
- Olin College of Engineering
- Pine Manor College
- Regis College
- Simmons College
- Smith College
- Springfield College
- Stonehill College
- Suffolk University
- Tufts University
- Urban College
- Wellesley College
- Wentworth Institute of Technology
- Western New England University
- Wheaton College
- Wheelock College
- William James College
- Williams College
- Worcester Polytechnic Institute


## Higher Education is key industry and driver of the economy; both nationally and in Massachusetts

## United States:

- 20.6 million students enrolled
- 3.7 million employees
- 5,458 institutions
- 32.3 percent public institutions; educating 71.7 percent of students
- 34.1 percent private institutions, educating 20.2 percent of students
- 33.5 percent for-profit institutions, educating 8.1 percent of students


## Massachusetts:

- 512,943 students enrolled
- 132,824 employees
- 132 institutions
- 22.7 percent public institutions; educating 44.1 percent of students
- 66.7 percent private institutions, educating 54.7 percent of students
- 10.6 percent for-profit institutions, educating 1.1 percent of students


## Economics of Higher Education

Massachusetts is the only state which educates more students in independent colleges than public colleges


## Economics of Higher Education

Twice as many bachelor degrees and five times as many graduate degrees are awarded at private colleges than public colleges


## Economics of Higher Education

More Pell Grant recipients attend 4-year independent colleges than 4 -year public institutions in the Commonwealth


## Economics of Higher Education

Massachusetts 4-year independent colleges graduate a significantly higher percentage of minority students than any other 4-year sector


## Economics of Higher Education

## Distribution of Full-Time Undergraduates at Four-Year Institutions by Tuition and Fees, 2015-16



Source: The College Board : 2015 Trends in College Pricing; Figure 3

## Economics of Higher Education

## Calculating the Cost of College

College A
Fiscal 2015 Operating Expenses


- Salaries, Wages \& employee benefits
- Services Purchased
- Other Expenses
- Space and Occupancy
- Depreciation
- Interest
- Supplies and Equipment
- Scholarships and Other Student Awards


## College B

Fiscal 2015 Operating Expenses


- Salaries and Wages
- Occupancy
- Grants to Domestic Individuals

■ Depreciations, Depletion and Amortization
■ Other
■ Other Expenses

## Economics of Higher Education

## Calculating the Cost of College

College A
Fiscal 2015 Operating Revenue


College B
Fiscal 2015 Operating Revenue


■ Program Service Revenue ■ Other

## Economics of Higher Education

Average Annual Percentage Increase in Inflation-Adjusted Published Prices by Decade, I985-86 to 2015-16


## Economics of Higher Education

Inflation-Adjusted Published Tuition and Fees Relative to I985-86, I985-86 to 20I5/I6 (I985-86 = I.0)


0.0 | $85-86$ | $87-88$ | $89-90$ | $91-92$ | $93-94$ | $95-96$ | $97-98$ | $99-00$ | $01-02$ | $03-04$ | $05-06$ | $07-08$ | $09-10$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $11-12$ | $13-14$ | $15-16$ |  |  |  |  |  |  |  |  |  |  |

## Economics of Higher Education

Despite an increase in published costs, the average net tuition and fees, adjusted for inflation, at independent colleges have remained consistent over the past decade


## Economics of Higher Education

Inflation-adjusted income has declined for all income groups over the past decade
$\square$ Lowest 20\% ■ Second 20\% ■ Third 20\% $\quad$ Fouth 20\% ■ Highest 20\% $\quad$ Top 5\%


## Economics of Higher Education

## Independent colleges save the Commonwealth billions in annual appropriations

|  | Public <br> Enrollment | Private <br> Enrollment | Total <br> Enrollment | Higher Education <br> Expenses |
| :---: | :---: | :---: | :---: | :---: |
| North Carolina | 455,308 | 96,642 | $55 I, 950$ | $\$ 3,726,028,884$ |
| Georgia | 413,812 | 73,276 | 487,088 | $\$ 2,897,66 I, 906$ |
| Massachusetts | 226,158 | 280,784 | 506,942 | $\$ 1,462,827,301$ |

## Economics of Higher Education

Controlling the cost of college through Federal, State, and institutional aid

|  | Massachusetts - <br> Private Colleges |  |
| :---: | :---: | :---: |
| Pell Grant | $\$ 161,098,590$ | $20.1 \%$ |
| Federal Work Study | $\$ 32,054,472$ | $4.0 \%$ |
| Federal FSEOG | $\$ 19,764,137$ | $2.5 \%$ |
| MassGrant* | $\$ 14,286,706$ | $1.8 \%$ |
| Gilbert Grant* | $\$ 15,808,423$ | $2.0 \%$ |
| Institutional Aid* | $\$ 560,000,000$ | $69.7 \%$ |
| TOTAL | $\$ 803,012,328$ |  |

## Economics of Higher Education

Massachusetts ranks $2^{\text {nd }}$ to last in the average state need-based grant award $\$ 6,000$


## Economics of Higher Education

Massachusetts trails in the percentage of total state support for higher education that is spent on need-based grants


## Key Factors in Driving Up the Cost of College

- Faculty (very high percentage of workforce highly educated = high salaries)
- Technology Capital Costs
- Health Care Costs
- 24/7 Utility Costs + Technology Infrastructure Costs
- Newer Facilities to Stay Competitive
- Science Facilities
- Wellness Student Services
- Housing

All this even as organizations like Colleges of the Fenway work to drive down costs through academic collaboration and consortia savings

## Economics of Higher Education

## Graduating On Time Saves Both Time and Money

|  | 4 Years to Degree | 6 Years to Degree |
| :---: | :---: | :---: |
| Years 1-4 | Average Net Price: $\$ 23,550 \times 4$ years = $\$ 94,200$ | Average Net Price: $\$ 23,550 \times 4$ years = $\$ 94,200$ |
|  | Student earns degree and enters the workforce | Student Continues Back to School |
| Year 5 |  | $5^{\text {th }}$ Year Net Price: \$23,550 |
|  |  | Average Lost Income in $5^{\text {th }}$ Year: $\$ 44,455$ |
|  |  | Students Continues Back to School |
| Year 6 |  | $6^{\text {th }}$ Year Net Price: \$23,550 |
|  |  | Average Lost Income in $6^{\text {th }}$ Year: |
|  |  | \$44,455 |
|  |  | Student earns degree and enters the workforce |
| Total Cost of Bachelors Degree | Tuition: \$94,200 | Tuition: \$141,300 |
|  | Lost Income: \$0 | Lost Income: \$88,910 |
|  | Total Cost: \$94,200 | Total Cost: \$230,210 |

## Economics of Higher Education

## Unemployment Rate and Weekly Earnings, by Education

## Earnings and unemployment rates by educational attainment, 2015



[^0]
## Economics of Higher Education

# Williams College Takes on the College Affordability Argument 

https://www.youtube.com/watch?v=bTIFDNoTZSQ


## The Tuition Driven Schools' Dilemma

Katie Conboy, Provost and Senior VP
Donna Ng, Senior VP of Finance and Administration
Simmons College

## The Tuition Driven Schools' Dilemma

Katie Conboy, Provost and SVP, Simmons College
Donna Ng , SVP of Finance and Administration, Simmons College April 8, 2016

## How do you know if you are tuition dependent?

- The most important question on campus every spring is: "Have we made our class?"
- Your acceptance rate is high.
- Your financial aid is largely driven by tuition "discounting" rather than by endowed scholarship aid.
- You rely on "merit" aid to attract students.
- Those students seem less prepared for your curriculum than in the past.
- Sometime before the end of each fiscal year, you run out of tuition \$\$ for basic operations.


## Recruitment vs.Admissions

- In admissions, you look at the students who want to come to you, review their applications and deal with the difficulty of saying yes to some and no to others.
- In recruitment, you need to help students find you (buying names, advertising, athletic recruiting, creating a "funnel").
- Once you get those students to notice you, you must convince them of your specific value proposition--"convert" inquiries to apps, creating dynamic yield events, offer merit aid.


## Reputation Matters

We love to hate the rankings, where as much as
$25 \%$ of the rank is based on reputation. But . . .

- Reputation drives "good" applications
- Reputation creates "willingness to pay"
- Reputation creates competition, and merit awards are part of the arms race
- Online education can have impact on reputation
- Reputation is largely local
- Reputational change is mostly for the long view


## Factors that impact enrollment

- Compelling program-including differentiators or special programs that are of interest to the kind of student you wish to attract.
- The numbers: How many students are possible for your applicant pool? (i.e. women's college)
- School goals; quality, diversity, size of class, tuition discount rate, gender balance, religious affiliation


## Internal policies/procedures that impact enrollment

- Understand metrics for students who eventually graduate
- Measure these metrics to applicant pool
- Financial aid/merit package


## Moodys rated A and lower schools:

## Net Tuition Revenue as a percent of Total Revenue



## Moodys rated A and lower schools:

Net Tuition Revenue as a percent of Total Revenue and Operating Margin


## Why do so many tuition dependent schools

 have surpluses?- No other choice
- Without a surplus, rating agencies would downgrade and question sustainability


## What can a school do when enrollments are

## below budget?

- Need cash
- How flexible and nimble is the cost structure?
- More than $50 \%$ are in salaries and benefits
- Cancel classes with low enrollments
- Only if faculty compensation expenses can be avoided
- Delay, delay, delay...


## Budgeting principles for a tuition dependent school

- Be conservative on enrollment projections
- Fund areas that will drive enrollment
- Marketing
- Consultants
- Avoid major expenditure commitments until enrollment is known

Questions?


## Colleges of the Fenway ${ }^{-1996-2016}$

Financial Models for Higher Education Robert Totino, VP of Finance Anne Marie Martorana, VP and CFO Wentworth Institute of Technology

## COF Institute on College Financials

## Financial Models for Higher Education Institutions

## Presented by Bob Totino and Anne Marie Martorana

April 8, 2016

## Goals for Session

- The basic financial/operating model
- Revenues and expenses
- Projecting growth and declines
- The dynamics of a college financial model


## What we're not going to cover

- Types of budget (operating, capital, restricted)
- Different approaches to budgeting (incremental, zerobased, RCM, formula-based, etc.)
- Fund accounting
- Financial statements (balance sheet, income statement, or the cash flow statement)
- Ratio analysis (CFI, Primary reserve, viability ratio, etc.)

College Finances 101

## Topics for Discussion

- Overview of revenues and expenses
- Tuition revenue and the discount rate
- Endowment fundamentals
- Financial equilibrium


## Variations within the COF

- Student FTE
- Endowment
- Auxiliary revenue
- Annual fund gifts
- Capital investment and debt load


## Revenues for a tuition dependent college



## Student Revenue

- Tuition, room and board fees
- Impacted by
> Number of students
> Type of students
- Undergraduate degree seeking (F/T \& P/T)
- Graduate (F/T \& P/T)
- Non-degree seeking (Special status, P/T, certificate)
> Price of tuition, room \& board ("sticker price")
> Financial aid (aka "the discount rate")


## Some Key Definitions

- Gross Tuition
> The tuition "sticker" price charged to attend the institution
- Discount
> The amount that the "sticker" price is reduced by the institution due to the awarding of aid/scholarships
- Net Tuition
> The actual dollars received as revenue


## Institutional Aid

- Two principal forms:
> Merit scholarships (No athletic scholarships in Div III)
> Need-based grants (FAFSA; COA and EFC)
- Institutions typically fund institutional aid from two sources:
> Revenue that the institution forgoes as an unfunded discount.
> Endowment distribution and gifts (designated student scholarships)


## Financial Aid \& the Discount Rate

## Impacts Discount Rate

- Funded Scholarships (Endowment \& Gift income)
- Unfunded Institutional Scholarships \& Grants

Does not Impact Discount Rate

- Federal, State, and Private Grants \& Scholarships
- Student Loans (Perkins, Stafford, Parent PLUS, \& Private)
- Student Employment, FWS, etc.


## Enrollment Management: A Balancing Act

- Enroll a class of students that meets institutional aspirations such as:
> Academic profile
> Diversity
> Athletics, music programs, academic programs
> Overall size of student body
- Manage the overall discount rate to generate sufficient net tuition revenue to cover operating expenses
- Enhancing one side of the equation will likely have a negative impact on the other


## Expenses for a tuition dependent college



## Expenses: Labor and Benefits

- Employee Compensation
> Faculty and staff salaries
> Student wages
> Benefits (pension, medical, dental, etc.)
> Taxes
- Number of faculty \& staff
- Full-time/part-time


## Expenses: Supplies and Services

Department budgets

- Academic
- Student services
- Administration

Utilities
Institutional expenses

- Insurance
- Food service

Off-campus programs

## Expenses: Debt \& Depreciation

Debt Service

- Long term debt
- Interest


## Capital

- Maintenance and repairs to physical plant (expense in year incurred)
- Capital improvements
- Equipment and technology


## Endowment Fundamentals

- Preserve the corpus
> Assets held in perpetuity (intergenerational equity)
> Quasi endowments
- Comply with donors' wishes
> Restricted funds vs. unrestricted funds
- Safeguard endowment purchasing power


## Endowment Revenue

- Ensure distribution respects intergenerational equity and donor restrictions
> Fiduciary responsibility of the Trustees
> Maintain the purchasing power of the endowment over the long term (i.e., perpetuity)
> Provide a stable flow of funds to the operating budget to provide resources to the current generation


## Endowment Revenue

- Annual distribution impacted by
> Rate of return on investments in endowment
> New gifts to the endowment
> Distribution formula
* Moving average (e.g. $5 \%$ of the trailing 3 years)
* Alternative approaches: Inflation-based or hybrid
> Spending policy (outlined in Inv't Policy Statement)


## Key Financial Drivers

- Net tuition revenue per student
- Rate of increase of compensation
- Endowment market returns
- Annual fund gifts
- Capital investment and debt load


## Financial Equilibrium

- Balanced budget
- Ongoing investment in human capital
- Preservation of physical assets
- Maintenance of endowment purchasing power


## USING MODELS TO PLAN: A FEW EXAMPLES

## Sample Income Statements

- In the base case, total revenues are expressed as $\$ 100$ to eliminate debates about specific dollar amounts and to make the math on all easier to follow
-The examples aren't forecasts, just exhibits showing the dynamics of the math
-Expenses are generally not adjusted in the scenarios
-Growth rates are assigned to the major revenue and expense lines based upon likely trends or past patterns


## Base Case

We used the most likely trend lines
Financial aid grows faster than tuition
Endowment earns 6\% annually, only 1\% above the draw formula

|  | SAMPLE COLLEGE Pro Forma Income Statement |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | BASE CASE |  |  |  |  |  |  |
|  | 2016 |  | 2017 | 2018 | 2019 | 2020 | 2021 |
|  | Base | Change | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| tuition | 111.32 | 3.0\% | 114.66 | 118.10 | 121.64 | 125.29 | 129.05 |
| fin aid | (52.32) | 4.0\% | (54.41) | (56.59) | (58.85) | (61.21) | (63.66) |
| net tuition | 59.00 |  | 59.00 | 59.00 | 59.00 | 59.00 | 59.00 |
| room and board | 20.00 | 3.5\% | 20.70 | 21.42 | 22.17 | 22.95 | 23.75 |
| endowment | 11.00 | 1.0\% | 11.11 | 11.22 | 11.33 | 11.45 | 11.56 |
| gifts and other | 10.00 | 3.0\% | 10.30 | 10.61 | 10.93 | 11.26 | 11.59 |
| total revenues | 100.00 |  | 101.11 | 102.25 | 103.43 | 104.65 | 105.91 |
| growth rate, prior yr |  |  | 1.1\% | 1.1\% | 1.2\% | 1.2\% | 1.2\% |
| compensation | 60.00 | 3.0\% | 61.80 | 63.65 | 65.56 | 67.53 | 69.56 |
| program and other | 30.00 | 3.0\% | 30.90 | 31.83 | 32.78 | 33.77 | 34.78 |
| debt/capital | 10.00 | 2.0\% | 10.20 | 10.40 | 10.61 | 10.82 | 11.04 |
| total expenses | 100.00 |  | 102.90 | 105.89 | 108.96 | 112.12 | 115.38 |
| growth rate, prior yr |  |  | 2.9\% | 2.9\% | 2.9\% | 2.9\% | 2.9\% |
| difference between rev and exp growth |  |  | -1.8\% | -1.8\% | -1.7\% | -1.7\% | -1.7\% |
| net operating results |  |  | (1.79) | (3.63) | (5.52) | (7.47) | (9.47) |

## Optimistic Case

Financial aid grows at the same rate as tuition

Endowment earns 3\% more than the draw formula

## SAMPLE COLLEGE Pro Forma Income Statement

|  | 2016 |  | 2017 | 2018 | 2019 | 2020 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Base | Change | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| tuition | 111.32 | 3.0\% | 114.66 | 118.10 | 121.64 | 125.29 | 129.05 |
| fin aid | (52.32) | 3.0\% | (53.89) | (55.51) | (57.17) | (58.89) | (60.65) |
| net tuition | 59.00 |  | 59.00 | 59.00 | 59.00 | 59.00 | 59.00 |
| room and board | 20.00 | 3.5\% | 20.70 | 21.42 | 22.17 | 22.95 | 23.75 |
| endowment | 11.00 | 3.0\% | 11.33 | 11.67 | 12.02 | 12.38 | 12.75 |
| gifts and other | 10.00 | 3.0\% | 10.30 | 10.61 | 10.93 | 11.26 | 11.59 |
| total revenues | 100.00 |  | 101.33 | 102.70 | 104.12 | 105.59 | 107.10 |
| growth rate, prior |  |  | 1.3\% | 1.4\% | 1.3\% | 1.4\% | 1.3\% |
| compensation | 60.00 | 3.0\% | 61.80 | 63.65 | 65.56 | 67.53 | 69.56 |
| program and other | 30.00 | 3.0\% | 30.90 | 31.83 | 32.78 | 33.77 | 34.78 |
| debt/capital | 10.00 | 2.0\% | 10.20 | 10.40 | 10.61 | 10.82 | 11.04 |
| total expenses | 100.00 |  | 102.90 | 105.89 | 108.96 | 112.12 | 115.38 |
| growth rate, prior yr |  |  | 2.9\% | 2.9\% | 2.9\% | 2.9\% | 2.9\% |
| difference between rev and exp growth |  |  | -1.6\% | -1.5\% | -1.6\% | -1.5\% | -1.6\% |
| net operating results |  |  | (1.57) | (3.18) | (4.84) | (6.53) | (8.28) |
| net operating results--base case |  |  | (1.79) | (3.63) | (5.52) | (7.47) | (9.47) |

## Pessimistic Case

Net tuition growth slows due to higher financial growth
-The same effect could be generated by slowing tuition increases and keeping fin aid growth unchanged

Endowment now earns 1\% less than the draw

|  | SAMPLE COLLEGE Pro Forma Income Statement |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PESSIMISTIC CASE |  |  |  |  |  |  |
|  | 2016 |  | 2017 | 2018 | 2019 | 2020 | 2021 |
|  | Base | Change | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| tuition | 111.32 | 3.0\% | 114.66 | 118.10 | 121.64 | 125.29 | 129.05 |
| fin aid | (52.32) | 5.0\% | (54.94) | (57.68) | (60.57) | (63.60) | (66.78) |
| net tuition | 59.00 |  | 59.00 | 59.00 | 59.00 | 59.00 | 59.00 |
| room and board | 20.00 | 3.5\% | 20.70 | 21.42 | 22.17 | 22.95 | 23.75 |
| endowment | 11.00 | -1.0\% | 10.89 | 10.78 | 10.67 | 10.57 | 10.46 |
| gifts and other | 10.00 | 3.0\% | 10.30 | 10.61 | 10.93 | 11.26 | 11.59 |
| total revenues | 100.00 |  | 100.89 | 101.81 | 102.77 | 103.77 | 104.81 |
| growth rate, prior yr |  |  | 0.9\% | 0.9\% | 0.9\% | 0.9\% | 0.9\% |
| compensation | 60.00 | 3.0\% | 61.80 | 63.65 | 65.56 | 67.53 | 69.56 |
| program and other | 30.00 | 3.0\% | 30.90 | 31.83 | 32.78 | 33.77 | 34.78 |
| debt/capital | 10.00 | 2.0\% | 10.20 | 10.40 | 10.61 | 10.82 | 11.04 |
| total expenses | 100.00 |  | 102.90 | 105.89 | 108.96 | 112.12 | 115.38 |
| growth rate, prior yr |  |  | 2.9\% | 2.9\% | 2.9\% | 2.9\% | 2.9\% |
| difference between rev and exp growth |  |  | -2.0\% | -2.0\% | -2.0\% | -2.0\% | -2.0\% |
| net operating results |  |  | (2.01) | (4.07) | (6.18) | (8.35) | (10.57) |
| net operating results--base case |  |  | (1.79) | (3.63) | (5.52) | (7.47) | (9.47) |

## So what are we to do?

- Increase enrollment
- Increase annual giving
- Reduce expenses
- Spend less on debt/capital

SAMPLE COLLEGE Pro Forma Income Statement
ADD 5\% MORE STUDENTS

|  | 2016 |  | 2017 | 2018 | 2019 | 2020 | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Base | Change | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| tuition | 111.32 | 3.0\% | 120.23 | 123.83 | 127.55 | 131.37 | 135.31 |
| fin aid | (52.32) | 4.0\% | (56.51) | (58.77) | (61.12) | (63.56) | (66.10) |
| net tuition | 59.00 |  | 63.72 | 65.07 | 66.43 | 67.81 | 69.21 |
| room and board | 20.00 | 3.5\% | 20.70 | 21.42 | 22.17 | 22.95 | 23.75 |
| endowment | 11.00 | 1.0\% | 11.11 | 11.22 | 11.33 | 11.45 | 11.56 |
| gifts and other | 10.00 | 3.0\% | 10.30 | 10.61 | 10.93 | 11.26 | 11.59 |
| total revenues | 100.00 |  | 105.83 | 108.32 | 110.87 | 113.46 | 116.12 |
| growth rate, prior yr |  |  | 5.8\% | 2.4\% | 2.3\% | 2.3\% | 2.3\% |
| compensation | 60.00 | 3.0\% | 61.80 | 63.65 | 65.56 | 67.53 | 69.56 |
| program and other | 30.00 | 3.0\% | 30.90 | 31.83 | 32.78 | 33.77 | 34.78 |
| debt/capital | 10.00 | 2.0\% | 10.20 | 10.40 | 10.61 | 10.82 | 11.04 |
| total expenses | 100.00 |  | 102.90 | 105.89 | 108.96 | 112.12 | 115.38 |
| growth rate, prior yr |  |  | 2.9\% | 2.9\% | 2.9\% | 2.9\% | 2.9\% |
| difference between rev and exp growth |  |  | 2.9\% | -0.5\% | -0.6\% | -0.6\% | -0.6\% |
| net operating result |  |  | 2.93 | 2.44 | 1.91 | 1.34 | 0.74 |
| net operating result | -base cas |  | (1.79) | (3.63) | (5.52) | (7.47) | (9.47) |


|  | SAMPLE COLLEGE Pro Forma Income Statement |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | INCREASE ANNUALGIVING |  |  |  |  |  |  |
|  | 2016 |  | 2017 | 2018 | 2019 | 2020 | 2021 |
|  | Base | Change | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| tuition | 111.32 | 3.0\% | 114.66 | 118.10 | 121.64 | 125.29 | 129.05 |
| fin aid | (52.32) | 4.0\% | (54.41) | (56.59) | (58.85) | (61.21) | (63.66) |
| net tuition | 59.00 |  | 59.00 | 59.00 | 59.00 | 59.00 | 59.00 |
| room and board | 20.00 | 3.5\% | 20.70 | 21.42 | 22.17 | 22.95 | 23.75 |
| endowment | 11.00 | 1.0\% | 11.11 | 11.22 | 11.33 | 11.45 | 11.56 |
| gifts and other | 10.00 | 10.0\% | 11.00 | 12.10 | 13.31 | 14.64 | 16.11 |
| total revenues | 100.00 |  | 101.81 | 103.75 | 105.82 | 108.04 | 110.42 |
| growth rate, prior yr |  |  | 1.8\% | 1.9\% | 2.0\% | 2.1\% | 2.2\% |
| compensation | 60.00 | 3.0\% | 61.80 | 63.65 | 65.56 | 67.53 | 69.56 |
| program and other | 30.00 | 3.0\% | 30.90 | 31.83 | 32.78 | 33.77 | 34.78 |
| debt/capital | 10.00 | 2.0\% | 10.20 | 10.40 | 10.61 | 10.82 | 11.04 |
| total expenses | 100.00 |  | 102.90 | 105.89 | 108.96 | 112.12 | 115.38 |
| growth rate, prior yr |  |  | 2.9\% | 2.9\% | 2.9\% | 2.9\% | 2.9\% |
| difference between rev and exp growth |  |  | -1.1\% | -1.0\% | -0.9\% | -0.8\% | -0.7\% |
| net operating results |  |  | (1.09) | (2.14) | (3.14) | (4.08) | (4.96) |
| net operating results--base case |  |  | (1.79) | (3.63) | (5.52) | (7.47) | (9.47) |

SAMPLE COLLEGE Pro Forma Income Statement


| compensation | 60.00 | $3.0 \%$ | $0.0 \%$ | $3.0 \%$ | $3.0 \%$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| program and other | 30.00 | $3.0 \%$ | $3.0 \%$ | $-3.0 \%$ | $3.0 \%$ |
| debt/capital | 10.00 | $2.0 \%$ | $2.0 \%$ | $2.0 \%$ | $-16.0 \%$ |
|  |  |  |  |  |  |
| total expenses | 100.00 | $\mathbf{2 . 9 \%}$ | $\mathbf{1 . 1 \%}$ | $\mathbf{1 . 1 \%}$ | $\mathbf{1 . 1 \%}$ |



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[^0]:    Note: Data are for persons age 25 and over. Earnings are for full-time wage and salary workers.
    Source: U.S. Bureau of Labor Statistics, Current Population Survey

