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2-1 Instructor's Manual for Financial Management for Public, Health, and Not-for-Profit Organi	tions, 5E
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C1	PLANNING
Chapter 2	FOR
_	SUCCESS:
	BUDGETING

#### QUESTIONS FOR DISCUSSION

- 2-1. Planning helps the organization by causing its employees to think ahead and anticipate change. This is done by establishing specific goals and objectives, communicating those objectives to the individuals who must achieve them, forecasting future events, developing alternatives, selecting from among alternatives, and coordinating activities. The activities are summarized in a document called a budget. The budget describes what we hope to achieve and the resources that will be used to carry out the organization's activities.
- 2-2. The organization's mission represents its reason for existence. For public, health, and not-for-profit organizations, finances often become a means to an end, rather than the end itself. This mission cannot solely be making profits. Financial management must help balance the focus on profit with the public service elements of the organization's mission.
- 2-3. Strategic plans translate the mission of the organization into an approach or set of approaches that will be used to accomplish the mission, and a broad set of goals that need to be attained to achieve the mission. Strategic plans set the organization's long-term direction. They often do not have specific financial targets. However, they set the stage for the specific, detailed budgets that will be established to achieve the organization's goals.
- 2-4. Whereas the strategic plan establishes goals, the long-range plan considers how to achieve those goals. Long-range plans establish the major activities that will have to be carried out in the coming three to five years. This process links the strategic plan to the day-to-day activities of the organization. Organizations that do not prepare a long-range plan are often condemned to only sustain current activities, at best.
- 2-5. Budgets establish the amount of resources that are available for specific activities. However, budgets do not merely limit the resources that can be spent. They represent the detailed plan that supports the organization's efforts to achieve its mission, and help the organization determine and achieve its goals and objectives. The budgeting process is one of exploring possibilities. Organizations determine what things they can and cannot do. They examine alternatives and choose those that are likely to yield the best results. They become attuned to possible problems and can work to find solutions. Budgeting forces managers to think ahead, to have clear expectations against which to measure performance, and to coordinate the activities of the organization so that everyone is working toward a common purpose.

Budgets are also used to control results. That is, budgets not only create plans, but they are also used to help accomplish those plans. This is done by comparing actual results to the budget.

Looking at results, we can assess what needs to be corrected. How good a job did the organization's management do? How well did the organization itself do? In order to evaluate performance, one must have a standard or benchmark to compare with actual results. The budget establishes the organization's expectations.

- 2-6. An organization may consider undertaking an activity that was not planned for when the annual budget was prepared. At any time an organization can prepare a special budget for a specific purpose. Appropriate approval should be obtained before implementing the budget.
- 2-7. An organization's budgets are often organized into a strategic plan, long-range plan, master budget, and special purpose budgets.
- 2-8. Budgets present specific, measurable goals. An individual is much more likely to work efficiently if there is a target to shoot for, assuming that the target is not unrealistic.
- 2-9. Most employees would prefer salaries that are substantially larger than the amounts they are currently receiving. Organizations lack the revenues to pay for those raises. Most managers would like more office space with new furniture and remodeled facilities. They would certainly like more staff to carry out existing functions. Organizations must make choices concerning how to spend their limited resources.
- 2-10. The manager should make sure that it is in the staff's best interests to do the things that are in the organization's best interests. The key is to establish a means of making the normally divergent desires of the organization and its employees become convergent, or congruent. Organizations often achieve congruence by setting up a system of incentives.
- 2-11. Financial incentives include retaining one's job and receiving good raises and bonuses. Bonus systems have a variety of problems. Some bonus systems reward all employees if spending is reduced. This is good unless workers can restrict volume, thus reducing the number of units of service provided in order to save money. Such behavior would likely reduce revenues by a greater amount than it would save costs. Also, if everyone gets a bonus, then no one feels that individual actions have much impact, and each individual may feel that she or he does not have to work particularly hard to reap the benefits of the bonus. If bonuses are given only to some employees, it may create jealousy and discontent. It is also possible that it may create a competitive environment in a situation in which teamwork is needed to provide quality care.

There are incentive alternatives to bonuses; for example, a letter from supervisor to subordinate. In the real world, praise is both cheap and, in many cases, effective. On the other hand, criticism, especially in writing, can have a stinging effect that managers will work hard to avoid in the future.

2-12. If targets are placed out of reach, people probably will not stretch to their utmost limits to come as close to the target as possible. When people work extremely hard and then fail, they often question why they bothered to work so hard. If hard work results in failure to achieve the target, then why not ease off? If you are going to fail anyway, must it be so painful?

- 2-13. (1) The budget is first prepared. (2) After review by the body with adoption authority, it is adopted, either with or without changes. (3) Once approved, the budget is implemented. It is the responsibility of the management of the organization or the executive branch of the government to assure that the adopted budget is carried out. (4) Finally, the results must be evaluated. Accountability is an element of this evaluation.
- 2-14. In some organizations, support and revenues are only acknowledged if they have been received in cash. In those cases, expenses are recognized when they have been paid. For organizations that record their revenues and expenses in that way, the cash budget would be identical to the operating budget. They are said to use a *cash basis of accounting*. In contrast, if revenue is recorded in the year the service is provided, whether cash has been received yet or not, then the organization is said to be using an *accrual basis of accounting*.

Cash accounting is easier, but does it enable us to understand how well our organization is doing? With accrual accounting we accrue, or anticipate, the eventual receipt of money for services provided, as well as recording expenses for resources consumed, even if they have not yet been paid for. When accrual accounting is used, the operating budget gives us a good idea of how profitable we expect the organization to be. However, it does not give an accurate idea of how much cash we will have.

- 2-15. Modified cash is a system that treats most revenues and expenses on a cash basis. However, capital acquisitions are depreciated over time, rather than all being treated as an expense in the year cash is paid for them.
- 2-16. The budget process can be quite complicated and time consuming. The process may take one to three months in small organizations and four to six months or even longer in larger ones. In order to assure that the budget is ready for adoption sufficiently early to be implemented at the start of the coming year, many organizations prepare a budget calendar or *timeline*. Government timelines are often set by law or regulation.

#### **PROBLEMS**

The exhibits below are embedded Excel objects. Double-clicking on them will open an Excel spreadsheet.

#### 2-17

First Year	Cash Budget	-	perating Budget
Collections/Revenues	\$ 45,000	\$	60,000
Disbursements/Expenses	\$ 52,000	\$	58,000
Net Cash Flow/ Profit or Loss	\$ (7,000)	\$	2,000
	0		

Second Year	Cash		
Second Teal	Е	Budget	
Collections	\$	15,000	
Disbursements	\$	6,000	
Net Cash Flow	\$	9,000	
Plus First-Year Cash Balance	\$	(7,000)	
Cash at End of Year Two	\$	2,000	

- i. The first year cash profit is (7,000).
- ii. The accrual basis profit is \$2,000.
- iii. If Finn Fixes were to stop operations at the end of the first year, it's second-year cash profit would be \$9,000
- iv. Finn' second-year ending cash balance would be \$2,000 exactly the same amount as the 1st-year's accrual budgetpredicted.
- v. Accrual better reflects the long-term stability of the organization.
- 2-18. 4

3

#### 2-19

1. Earns

Uses

- 2. depreciation
- 3. cash or cash flows; or the full project life

# 2-20. Monroe Outpatient Surgery Center Operating Budget June 2018

Revenues	\$ 200,000	80 procedures x \$2,500/procedure
Expenses Professional Fees Surgical Supplies Salaries Occupancy Communications Depreciation Total Expenses	\$ 120,000 24,000 10,500 8,200 1,200 4,000 167,900	80 procedures x \$1,500/procedure 80 procedures x \$300/procedure Given Given Given \$240,000 / 60 months
Profit/(Loss)	\$ 32,100	

# 2-21. (Capital Assets and Depreciation Expense)

	<u>Cost</u>	Salvage	Depreciable Base (Cost - Salvage)	Useful <u>Life</u>	Annual <u>Depreciation</u>
Building:	\$ 40,000,000	\$ -	\$ 40,000,000	40	\$ 1,000,000
<b>Equipment:</b>	6,000,000	1,200,000	4,800,000	10	480,000
Total					\$ 1,480,000

## 2-22.

Operating Budget	March	Cash Budget	March
Total Revenue	\$ 240,000	Beginning Balance	\$ 26,000
Expenses		Cash Receipts	
Payroll	\$ 160,000	February Billings	\$ 150,000
Supplies	48,000	March Billings	60,000
Depreciation	12,000	Total Collections	<u>\$ 210,000</u>
Interest	<u>6,000</u>	Total Cash Available	\$ 236,000
Total Expenses	\$ 226,000		
		Disbursements	
Profit/(Loss)	<u>\$ 14,000</u>	Payroll Payment	\$ 170,000
		Supply Payments	45,000
		<b>Building Acquisition</b>	\$ 250,000
		Total Disbursements	\$ 465,000
Capital Budget			
Building Acquisition	\$ 250,000	Cash Surplus/(Shortfall)	\$ (229,000)
Mortgage	\$ 250,000	Borrowing/(Repayment)	250,000

# 2-23. (Cash and Operating Budgets)

Middleboro Township Operating Budget Fourth Quarter			
Revenues			
Income Tax	\$ 750,000	(earned equally throughout year)	
Loan	<u>35,000</u>	(revenue under modified accrual)	
Total Revenue	\$ 785,000		
Expenditures			
Salaries	\$ 720,000		
Interest	437.50	$(\$35,000 \times 5\% - \$2,800 / 4 = \$437.50 \text{ per quarter})$	
Supplies	390,000	(expenditure when legal obligation to pay; i.e., when supplies received)	
Total Expend.	\$ 1,110,438		
Surplus/(Deficit)	\$ (325,438)		

Middleboro Township				
Cash Budget				
		F	ourth Quarter	
Beginning Cash	\$300,000		Given	
Tax Receipts	600,000		Cash rather than accrual basis	
Loan Receipt	35,000			
Cash Available	\$935,000			
Salaries	-720,000			
Supplies	<u>-300,000</u>		From first quarter due to payment lag	
Ending Cash	<u>(\$85,000)</u>			

Note that operating budget and cash budget results are not the same, because of timing differences of when things are recorded under an accrual approach.

# 2-24. (Special Purpose Budget)

Budget		
Revenue		
Supermarket Subsidy	<u>\$1,000</u>	
Total Revenue	\$1,000	
Less Expenses		
Equipment rental	\$500	
Nurses \$50 10 hours 7 days	3,500	
Test Costs 700 \$1	<u>700</u>	
Total Expenses	\$4,700	
	(1.0	
Surplus/loss	<u>(\$3,700)</u>	

No, it is not necessarily financially bad. This program may discover patients with hypertension or other medical problems who will become patients of the hospital, generating additional revenues. Also it provides the hospital with a way to advertise their services, generating future patient volume and revenue.

# 2-25. (Cash Budget)

	January	February	March
Beginning Balance	\$500,000	\$1,300,000	\$1,200,000
Cash Receipts			
Property tax	4,500,000	3,600,000	2,250,000
Sales Tax	<u>0</u>	0	<u>230,000</u>
Total Cash Available	\$5,000,000	\$4,900,000	\$3,680,000
Less Cash Disbursements	3,700,000	3,700,000	<u>3,700,000</u>
Net Cash Available	\$1,300,000	\$1,200,000	(\$20,000)
Borrow/(repay)	<u>0</u>	<u>0</u>	120,000
Ending Cash Balance	<u>\$1,300,000</u>	<u>\$1,200,000</u>	<u>\$100,000</u>

## 2-26

Assessed Valuation	300,000,000	
Exempt Properties	5,000,000	
Tax Delinquency rate	10%	
General Fund Need	3,500,000	
Amount drawn from Rainy-Day Fund	500,000	
	300,000,000	
Less: Exempt Property	<u>5,000,000</u>	
Property Subject to Taxation	<u>295,000,000</u>	# 1
Amount Needed	3,500,000	
Less: Amount drawn from Rainy-Day Fund	<u>500,000</u>	
Adjusted Taxes to be Billed	3,000,000	
Plus: Uncollectible taxes	<u>333,333</u>	
Total value of tax bills to be sent	<u>3,333,333</u>	# 2
Tax Rate (# 2 / # 1)	0.011299	# 3
Mill rate ( # 3 * 1000)	\$11.299	

2-27

- 1. a) increase
- 2. b) decrease
- 3. b) decrease

# 2-28. Capital Budget

Item to be <u>Acquired</u>	<u>Quantity</u>	Estimated Useful <u>Lifetime</u>	<u>Cost</u>	Total <u>Cost</u>
Garbage Trucks	2	10	\$150,000	\$300,000
Bulldozer	1	8	240,000	
Riding Mowers	3	5	16,000	48,000
Activity Center	1	40	650,000	650,000
Total				\$1,238,000

# 2-29. (Operating Budget) The zoo expects the following number of visitors per month:

Visitor Type	Monthly Number of Admission Tickets	Price per Admission (\$)	Admission Revenues	Total Admitted
Adult	800	8	\$6,400	800
Child	950	5	4,750	950
School child	1,000	3	3,000	1,000
Families	300	20	<u>6,000</u>	<u>1,200</u>
Total			\$20,150	3,950

Budget				
Revenues				
County Grant	\$7,000			
Admissions	<u>20,150</u>			
Total Revenues	\$27,150			
Expenses				
Administration	\$12,000			
Staff	10,000			
Train Costs	1,317			
Maintenance	<u>3,950</u>			
Total Expenses	<u>\$27,267</u>			
Profit/(Loss)	(\$117)			

# 2-30. (Cash Budget)

	Total	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Admissions by Quarter		30%	25%	15%	30%
Admission Revenue	\$180,000	\$54,000	\$45,000	\$27,000	\$54,000

Cash Budget	Quarter 1	Quarter 2
Beginning Cash	\$5,000	\$5,000
Cash Receipts		
Admissions	54,000	45,000
County Grant	0	0
Total Cash Available	\$59,000	\$50,000
Cash Disbursements		
Administration and Staff	\$55,000	\$55,000
Train Costs	5,400	6,000
Maintenance	<u>10,800</u>	<u>9,000</u>
Total Cash Disbursements	<u>\$71,200</u>	\$70,000
Subtotal	(\$12,200)	(\$20,000)
Borrow (Repay)	<u>17,200</u>	25,000
Ending Balance	<u>\$5,000</u>	<u>\$5,000</u>
Note Payable	<u>\$17,200</u>	\$42,200

## 2-31.

March cash receipts

 $\begin{array}{ccc} 60\% \text{ of } \$13,000 & \$7,800 \\ 40\% \text{ of } \$12,500 & \underline{5,000} \\ \text{Total cash receipts} & \underline{\$12,800} \end{array}$ 

## 2-32.

		Q1		Q2		Q3		Q4
Sources of Revenue								
Contributions	\$	25,000	\$	35,000	\$	35,000	\$	50,000
Federal Grants		250,000		375,000		350,000		250,000
City Contracts		240,000		300,000		320,000		360,000
Total Revenue	\$	515,000	\$	710,000	\$	705,000	\$	660,000
	6.	Ot	C	One Qtr.	T	wo Qtrs.	Th	ree Qtrs.

Collections by Quarter and Soc	Same Qtr.	One Qtr. Later	Two Qtrs. Later	Three Qtrs. Later
Contributions	100%			
Federal Grants		100%		
City Contracts		25%	25%	50%

Collections	4ti	n Quarter
Contributions	\$	50,000
Federal Grants	\$	350,000
City Contracts		
3rd Qtr	\$	80,000
2nd Qtr.		75,000
1st Qtr.		120,000
<b>Total City Contracts</b>	\$	275,000
Total Collections	\$	675,000

2-33.

# Re:Plate Annual Operating Budget Fiscal Year 2017

# **Revenues & Support**

Grocery sales	\$1,650,000
Class fees	39,000
Total revenues & support	\$1,689,000

# **Expenses**

Food	\$1,250,000
Rent	120,000
Salaries and benefits	294,000
Interest	400
Depreciation	<u>11,750</u>
Total expenses	\$1,676,150

**Profit /(Loss)** \$12,850

# Re:Plate Semiannual Cash Budget Fiscal Year 2017

	First Half Second Half		A	Annual		
<b>Beginning Balance</b>	\$	21,000	\$	37,000	\$	21,000
Receipts						
Grocery sales		825,000		825,000	1	,650,000
Class fees		19,500	_	19,500		39,000
Total		844,500		844,500	1	,689,000
Available Cash	\$	865,500	\$	881,500	\$ 1	,710,000
Payments						
Food		625,000		625,000	1	,250,000
Rent		60,000		60,500		120,500
Salaries and benefits		143,500		147,000		290,500
Interest		<u> </u>		400		400
Total		828,500		832,900	1	,661,400
Subtotal	\$	37,000	\$	48,600	\$	48,600
Borrowing		-		40,000		40,000
Repayments		-		(10,000)		(10,000)
Investments		-		(40,000)		(40,000)
Ending balance	\$	37,000	\$	38,600	\$	38,600

2-34.

# 

Unit Revenues  Monthly parent tuition  Monthly County tuition	\$10 \$200
Unit Costs	
Inside teachers per hour	\$50
Outside teachers per hour	\$60
Software per year	\$2,400
Supplies per student per session	\$1.50

	Month 1	Month 2	Month 3
Students	25	41	52
Student to teacher ratio	5	5	5
Number of teachers	5	8.2	10.4
Whole number of teachers	5	9	11
Number of inside teachers	5	5	5
Number of outside teachers	0	4	6
Tutoring sessions per month	8	8	8
Hours per session	2	2	2
Teacher Hours			
Inside	80	80	80
Outside	0	64	96

Revenue	M	onth 1	Month 2	N	onth 3	F	Full Qtr.
Tuition - Parents	\$	250	\$ 410	\$	520	\$	1,180
Tuition - County		5,000	 8,200		10,400		23,600
Total Revenue	\$	5,250	\$ 8,610	\$	10,920	\$	24,780
Expenses							
Inside teachers	\$	4,000	\$ 4,000	\$	4,000	\$	12,000
Outside teachers		-	3,840		5,760		9,600
Supplies		300	492		624		1,416
Software		200	 200		200		600
Total Expenses	\$	4,500	\$ 8,532	\$	10,584	\$	23,616
Surplus/(Deficit)	\$	750	\$ 78	\$	336	\$	1,164

C – Monthly detail shown to illustrate the solution

Cash Budget	Mo	nth 1		Month 2	Ν	Month 3	Full Qtr.
Beginning Balance	\$	<u>-</u>	\$	(6,450)	\$	(9,372)	\$ 
Receipts							
Parent Tuition	\$	250	\$	410	\$	520	\$ 1,180
County Contract			\$	5,000	\$	8,200	\$ 13,200
Total Receipts	\$	250	\$	5,410	\$	8,720	\$ 14,380
Available Cash	\$	250	\$	(1,040)	\$	(652)	\$ 14,380
Disbursements							
Salaries	\$	4,000	\$	7,840	\$	9,760	\$ 21,600
Software	\$	2,400	Ψ	7,010	Ψ	0,7.00	\$ 2,400
Supplies	\$	300	\$	492	\$	624	\$ 1,416
Total Disbursements	\$	6,700	\$	8,332	\$	10,384	\$ 25,416
Cash Surplus/(Shortfall)	\$	(6,450)	\$	(9,372)	\$	(11,036)	\$ (11,036)

# 2-35. Marquoya College

<u>-</u>	15	

Part I		
Tuition Revenue	\$15,640,000	(4300 + 300) * (\$3,300 + 100)
Less: Scholarships	<u>1,360,000</u>	Less 400 Scholarships
Net Tuition Revenue	\$14,280,000	
Fee Revenue	\$1,288,000	4,600 * \$280
Part II		
Faculty salaries:		
Full time	\$9,000,000	250 * \$36,000
5% Increase	450,000	
Merit Increase	280,000	Given
Adjunct Faculty	270,000	20 * 18 * \$750
Total Faculty Salaries	\$10,000,000	
Payroll Taxes	\$1,000,000	10% * Total Faculty Salaries

Part III

**Budgeted Receipts** 

Tuition \$14,280,000 Fees 1,288,000 514,000 Endowment 538,000 **Auxiliary Services** Athletics 1,580,000 **Total Budgeted Receipts** \$18,200,000

Budgeted	Expenditures
Duugeteu	

<del></del>		
Faculty Salaries	\$10,000,000	
Operation and Maintenance of Plant	1,260,000	\$1,000,000 + 10,000 + 50,000
Mortgage payments	264,000	Given
Administration & General	1,440,000	Given
Library	1,800,000	Given
Health & Recreation	750,000	Given
Athletics	320,000	Given
Insurance & Retirement Benefits	548,000	Given
Capital Improvements	1,300,000	Given
Payroll Taxes	1,276,000	Total Salaries * 10%
Federal Income Taxes	36,000	Given
Bank Loan	204,000	\$200,000 + \$4,000
Total Budgeted Expenditures	\$19,198,000	
Projected Deficit Prior to Fund Raising	(\$998,000)	
,	`	

Part IV	SEPTEMBER	<u>OCTOBER</u>	NOVEMBER
Beginning Cash Balance	\$3,700	\$2,006,600	\$3,000
Add: Cash Receipts			
Tuition	2,856,000	0	2,142,000
Fees	644,000	0	0
Endowment	128,500	0	0
Auxiliary Service	53,800	53,800	53,800
Athletics	158,000	0	790,000
Alumni Support	<u>15,000</u>	<u>15,000</u>	90,000
TOTAL CASH AVAILABLE	<u>\$3,859,000</u>	<u>\$2,075,400</u>	<u>\$3,078,800</u>
Less: Cash Disbursements			
Faculty Salaries	\$1,000,000	\$1,000,000	\$1,000,000
Oper. & Maint. of Plant	100,800	100,800	126,000
Mortgage Payments	22,000	22,000	22,000
Admin. & General	120,000	120,000	120,000
Library	150,000	150,000	150,000
Health & Recreation	62,500	62,500	62,500
Athletics	32,000	16,000	32,000
Insurance & Retirement Ben.	54,800	54,800	54,800
Capital Improvements	0	1,040,000	0
Payroll Taxes	106,300	106,300	106,300
Federal Income Taxes	<u>0</u>	<u>0</u>	9,000
TOTAL DISBURSEMENTS	\$1,648,400	\$2,672,400	\$1,682,600
PRE-FINANCING CASH BALANCE	\$2,210,600	(\$597,000)	\$1,396,200
Financing Activity:			
Borrow (REPAY) Disinvest (INVEST)	(204,000)	600,000	(608,000)
ENDING CASH BALANCE	\$ <u>2,006,600</u>	\$ <u>3,000</u>	\$ <u>788,200</u>

Note: instructions said to round to nearest \$100

The Marquoya College problem and solution were written by Ken Milani and Jim Gaertner. Used with permission.

# EXTENDED PROBLEM: DENISON SPECIALTY HOSPITAL

## **SOLUTION**

## Part I

#### Section A

# 1. Calculation of patient revenue

	Payer	Program	Volume by	Net	Net
	Mix	Volume	Payer	Price	Revenue
	(A)	(B)	$(\mathbf{C} = \mathbf{A} \times \mathbf{B})$	(D)	$(\mathbf{E} = \mathbf{C} \times \mathbf{D})$
Oncology					
Private Insurance	30%	120	36	\$50,000	\$1,800,000
Medicaid/Medicare	50%	120	60	40,000	2,400,000
Self-Pay	10%	120	12	50,000	600,000
Charity	10%	120	12	0	0
Cardiac					
Private Insurance	20%	80	16	40,000	640,000
Medicaid/Medicare	60%	80	48	30,000	1,440,000
Self-Pay	10%	80	8	40,000	320,000
Charity	10%	80	8	0	0
Rhinoplasty					
Private Insurance	10%	40	4	25,000	100,000
Medicaid/Medicare	20%	40	8	10,000	80,000
Self-Pay	60%	40	24	25,000	600,000
Charity	10%	40	4	0	0
			Total P	atient Revenue	<u>\$7,980,000</u>

# 2. Endowment revenue

	Investment	Rate	Income
U.S. Bond	\$500,000	6%	\$30,000
AT&T Div	250,000	8%	20,000
Growth Stock	250,000	0%	0
	\$1,000,000		<u>\$50,000</u>

3. Gift shop revenue: \$120,000 for current year. Will remain the same next year. Assume that gift shop revenue varies with the number of patients in the hospital.

Denison Specialty Hospital Revenue Budget for Next Year					
Net Patient Revenue	\$7,980,000				
Gift Shop Revenue	120,000				
Endowment Income	50,000				
Total Budgeted Revenue	\$8,150,000				

## Section B

1. Calculation of expected bad debts

			Bad Debt	
		Revenue	Rate	Bad Debt
Oncology Self-Pay	(from above)	\$600,000	25%	\$150,000
Cardiac Self-Pay	(from above)	320,000	25%	80,000
Rhinoplasty Self-Pay	(from above)	600,000	25%	150,000
Budgeted Bad Debts				\$380,000

2. Consider annual impact of capital budget

 $500,000 \div 5$ -year life: Annual Expense = 100,000

Expense Budget for Next Year	1 0		
Salaries \$6,9	900,000		
Supplies 5	540,000		
Bad Debts 3	380,000		
Rent 3	300,000		
Depreciation Expense1	100,000		
Total Budgeted Expense \$8,2	220,000		

3.	Denison Specialty Ho Operating Budge For Year Ending Last Day		
	Revenues		
	Net Patient Revenue	\$7,980,000	
	Gift Shop	120,000	
	Endowment	50,000	
	Total Budgeted Revenue		\$8,150,000
	Expenses		
	Salaries	\$6,900,000	
	Supplies	540,000	
	Bad Debts	380,000	
	Rent	300,000	
	Depreciation	100,000	
	Total Budgeted Expense		8,220,000
	Budgeted Excess of Revenues over Expenses		\$ (70,000)

# INSTRUCTOR'S NOTES

## **Denison Specialty Hospital**

You may wish to distribute copies of the previous tables as you discuss the case and retain the notes below for your discussion preparation.

The numerical solution to the case appears above. Try to stress the importance and use of the information as much as possible. The hardest part of the process is gathering the data that was given in the case. Assembling that data into the actual budgets is the easier element. The solution is organized as follows:

#### Part I

#### Section A

1. Calculation of patient revenue—the payer mix is provided in the case, as is the volume of patients for each program. The volume by payer is calculated by multiplying those two factors.

The net price is the same as the charge for the private insurance. The net price is set by the government for Medicare and Medicaid in this example.

The net price is the same as the charge for the self-pay patient, even though we know there will be some bad debt. The full charge is the revenue, and bad debt will be subtracted later as an expense. This follows current accounting rules for hospitals.

The net price is 0 for charity care. This follows current accounting rules for hospitals. Multiply volume by net price to get net revenue.

- 2. Endowment income is based directly on information given in the case.
- 3. Revenue budget simply sums the different elements. Gift shop revenue is given in the case. We might want to discuss whether they have overlooked other revenue. Is there generally contribution revenue? Do we think we can raise our prices? Do we want to raise our prices? Are we happy with our endowment income? If we expect a deficit, are we willing to take a greater risk? Are we confident that we will get our expected volume and prices?

#### Section B

- 1. Calculation of Expected Bad Debts: The case says that 25% of self-pay is never collected. The revenue numbers come from Part I, Section A calculations above.
- 2. Expense Budget: The total salaries, supplies, and rent are all given in the case. The result is a lineitem expense budget. This does not tell us much about the relative cost of different programs or of running different departments.
- 3. Combine the revenue and expense budgets into one table to yield the operating budget.

# Problem 2-17

# **SOLUTION**

First Year		Cash Budget	•	perating Budget
Collections/Revenues	\$	45,000	\$	60,000
Disbursements/Expenses	\$	52,000	\$	58,000
Net Cash Flow/ Profit or Loss	\$	(7,000)	\$	2,000

Second Year	Cash Budget		
Second Teal			
Collections	\$	15,000	
Disbursements	\$	6,000	
Net Cash Flow	\$	9,000	
Plus First-Year Cash Balance	\$	(7,000)	
Cash at End of Year Two	\$	2,000	

Cash at the end of year 2 is the same as the accrual basis. Accrual basis better refelcts long-term stability of organizatio

#### **EXTENDED PROBLEM: DENISON SPECIALTY HOSPITAL**

## SOLUTION

## Part I

#### Section A.

## 1 Calculation of patient revenue.

	Payer	Program	Volume by	Net
	Mix	Volume	Payer	Price
	(A)	(B)	$(\mathbf{C} = \mathbf{A} \times \mathbf{B})$	(D)
Oncology				
Private Insurance	30%	120	36	\$50,000
Medicaid/Medicare	50%	120	60	40,000
Self-Pay	10%	120	12	50,000
Charity	10%	120	12	0
Cardiac				
Private Insurance	20%	80	16	40,000
Medicaid/Medicare	60%	80	48	30,000
Self-Pay	10%	80	8	40,000
Charity	10%	80	8	0
Rhinoplasty				
Private Insurance	10%	40	4	25,000
Medicaid/Medicare	20%	40	8	10,000
Self-Pay	60%	40	24	25,000
Charity	10%	40	4	0
-			Total Pa	tient Revenue

Net
Revenue
$(\mathbf{E} = \mathbf{C} \times \mathbf{D})$
\$1,800,000
2,400,000
600,000
0
640,000
1,440,000
320,000
0
100,000
80,000
600,000
0
<u>\$7,980,000</u>

#### Section A.

#### 2 Calculation of endowment revenue.

	Investment	Rate	Income
U.S. Bond	\$500,000	6%	\$30,000
AT&T Div	250,000	8%	20,000
Growth Stock	250,000	0%	0
	\$1,000,000		\$50,000

## Section A.

# 3 Revenue Budget.

Denison Specialty Hospital Revenue Budget for Next Year		
Net Patient Revenue	\$7,980,000	
Gift Shop Revenue	120,000	
Endowment Income	50,000	
Total Budgeted Revenue	\$8,150,000	

#### Section B.

## 1 Bad Debt Expenses

		<b>Bad Debt</b>	
	Revenue	Rate	Bad Debt
Oncology Self-Pay	\$600,000	25%	\$150,000
Cardiac Self-Pay	320,000	25%	80,000
Rhinoplasty Self-Pay	600,000	25%	<u>150000</u>
Budgeted Bad Debts			\$380,000

## Section B.

# 2 Expense Budget

Denison Specialty Hospital Expense Budget for Next Year		
Salaries	\$6,900,000	
Supplies	540,000	
Bad Debts	380,000	
Rent	300,000	
Depreciation Expense	100000	
Total Budgeted Expense	\$8,220,000	

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#### Section B.

## 3 Operating Budget

	Denison Specialty Hospital Operating Budget		
	For Year Ending Last Day of	of Next Year	
	Revenues		
	Net Patient Revenue	\$7,980,000	
	Gift Shop	120,000	
	Endowment	50,000	
	Total Budgeted Revenue		\$8,150,000
	Expenses		
	Salaries	\$6,900,000	
	Supplies	540,000	
	Bad Debts	380,000	
	Rent	300,000	
	Depreciation	<u>100,000</u>	
	Total Budgeted Expense		8,220,000
	Budgeted Excess of Revenues over Expenses		<u>(\$70,000)</u>