## College Accounting

A Contemporary Approach


Copyright © 2017 McGraw-Hill Education. All rights reserved. No reproduction or distribution without the prior written consent of McGraw-Hill Education.

# Chapter 3 <br> Analyzing Business <br> Transactions Using T Accounts 

## by <br> Haddock, Price, and Farina

## Chapter 3 Learning Objectives

## SECTION 1: Transactions That Affect Assets, Liabilities, and

Owner's Equity
3-1 Set up T accounts for assets, liabilities, and owner's equity.
3-2 Analyze business transactions and enter them in the accounts.

3-3 Determine the balance of an account.
SECTION 2: Transactions That Affect Revenue, Expenses, and Withdrawals
3-4 Set up T accounts for revenue and expenses.
3-5 Prepare a trial balance from T accounts.
3-6 Prepare an income statement, a statement of owner' s equity, and a balance sheet.

3-7 Develop a chart of accounts.
3-8 Define the accounting terms new to this chapter.

## Section 1: Transactions That Affect Assets, Liabilities, and Owner's Equity

## Learning Objective

## 3-1: Set up T accounts for assets, liabilities, and owner's equity.

## The Accounting Equation

## ASSETS

The property a = business owns

## LIABILITIES

The debts of the business

## $+$

OWNER'S EQUITY
The owner's financial interest in the business

## Classification of Accounts

- Asset Accounts

Asset accounts show the property a business owns.

- Liability Accounts Liability accounts show the debts of the business.
- Owner' s Equity Accounts Owner' s equity accounts show the owner's financial interest in the business.

Section 1, Objective 3-1: Set up T accounts for assets, liabilities, and owner's equity.

## T Accounts

Accountants use $T$ accounts to analyze transactions. A $T$ account consists of a vertical line and a horizontal line that resembles the letter T. T accounts are helpful when analyzing transactions.

These are examples of $T$ accounts for assets, liabilities, and owner's equity.

| ASSETS |  | LIABILITIES |  | OWNER'S EQUITY |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Record Increases | Record Decreases | Record Decreases | Record Increases | Record Decreases | Record Increases |
| LEFT SIDE | RIGHT SIDE | LEFT SIDE | RIGHT SIDE | LEFT SIDE | RIGHT SIDE |

## Section 1: Transactions That Affect Assets, Liabilities, and Owner's Equity

## Learning Objective

## 3-2: Analyze business transactions and enter them in the accounts.

## Effects of Business Transactions

## Steps to analyze the effects of the business transactions:

1. Analyze the financial event.

- Identify the accounts affected.
- Classify the accounts affected.
- Determine the amount of increase or decrease for each account.

2. Apply the left-side-right-side rules for each account affected.
3. Make the entry in T-account form.

## Initial Investment

Trayton Eli withdrew \$100,000 from personal savings and deposited it in the new business checking account for Eli's Consulting Services.

- LEFT Increases to asset accounts are recorded on the left side of the T account.
- RIGHT Increases to owner's equity accounts are recorded on the right side of the T account.


Trayton Eli, Capital
(a) 100,000

## Business Transaction

Eli's Consulting Services issued a $\$ 5,000$ check to purchase a computer and other equipment.

Analysis:
(b) The asset account, Equipment, is increased by $\$ 5,000$.
(b) The asset account, Cash, is decreased by $\$ 5,000$.


## Purchase of Equipment on Account

The firm bought office equipment for $\$ 6,000$ on account from Office Plus.

## Analysis:

(c) The asset account, Equipment, is increased by $\$ 6,000$.
(c) The liability account, Accounts Payable, is increased by $\$ 6,000$.

Equipment
(c) 6,000

Accounts Payable
(c) 6,000

## Purchase of Supplies for Cash

## Eli's Consulting Services issued a check for $\$ 1,500$ to Office Delux Inc. to purchase office supplies.

## Analysis:

(d) The asset account, Supplies, is increased by $\$ 1,500$.
(d) The asset account, Cash, is decreased by $\$ 1,500$.


## Payment of a Liability

Eli's Consulting Services issued a check in the amount of $\$ 2,500$ to Office Plus.

Analysis:
(e) The asset account, Cash, is decreased by $\$ 2,500$.
(e) The liability account, Accounts Payable, is decreased by \$2,500.

| Accounts Payable |
| :---: |
| (e) 2,500 |

## Prepayment of Rent

## Eli's Consulting Services issued a check for $\$ 8,000$ to pay rent for the months of December and January.

Analysis:
(f) The asset account, Prepaid Rent, is increased by $\$ 8,000$.
(f) The asset account, Cash, is decreased by $\$ 8,000$.


## Section 1: Transactions That Affect Assets, Liabilities, and Owner's Equity Learning Objective

## 3-3: Determine the balance of an account

# An account balance is the difference between the amounts recorded on the two sides of an account. 

A footing is a small pencil figure written at the base of an amount column showing the sum of the entries in the column.

## Recording Account Balances

|  |  |
| :--- | :--- |
| the total on the right side is larger <br> than the total on the left side, | the balance is recorded on the right <br> side. |
| the total on the left side is larger, | the balance is recorded on the left <br> side. |
| an account shows only one amount, | that amount is the balance. |
| an account contains entries on only <br> one side, | the total of those entries is the <br> account balance. |

## Computing the Account Balance

Cash


## Summary of Account Balances



## Section 2: Transactions That Affect Revenue, Expenses, and Withdrawals

 Learning Objective
## 3-4: Set up T accounts for revenue and expenses.

Section 2, Objective 3-4: Set up T accounts for revenue and expenses.

## T-Account for Revenue

Owner's Equity

Decrease
Side
Increase

- Revenues increase owner's equity.
- Increases in owner's equity appear on the right side of the T account.
- Therefore, increases in revenue appear on the right side of revenue $T$ accounts.


## Revenue

| Decrease | Increase |
| :---: | :---: |
| Side | Side |

## The right side of the revenue account shows increases and the left side shows decreases.

## Decreases in revenue accounts are rare but might occur because of corrections or transfers.

## Recording \$36,000 of Revenue from Services Sold for Cash

## Cash

Bal. 83,000
(g) 36,000
$\$ 36,000$ is entered on the left (increase) side of the asset account Cash.

Fees Income

$\$ 36,000$ is entered on the right side of the Fees Income account.

## Recording Revenue from Services Sold on Credit

In December, Eli's Consulting Services earned $\$ 11,000$ from various charge account clients.

Analysis:
(h) The asset account, Accounts Receivable, is increased by $\$ 11,000$.
(h) The revenue account, Fees Income, is increased by $\$ 11,000$.

Accounts Receivable
(h) 11,000

Fees Income
(h) 11,000

## Receipt of Payments on Account

Charge account clients paid $\$ 6,000$, reducing the amount owed to Eli's Consulting Services.

Analysis:
(i) The asset account, Cash, is increased by $\$ 6,000$.
(i) The asset account, Accounts Receivable, is decreased by \$6,000.


Accounts Receivable
(i) $\mathbf{6 , 0 0 0}$

Section 2, Objective 3-4: Set up T accounts for revenue and expenses.


- Expenses decrease owner' s equity.
- Decreases in owner' s equity appear on the left side of the T accounts.


## Payment of Salaries

In December, Eli's Consulting Services paid \$8,000 in salaries.

Analysis:
(j) The asset account, Cash, is decreased by $\$ 8,000$.
(j) The expense account, Salaries Expense, is increased by \$8,000.

| Salaries Expense |  |
| :--- | :---: |
| (j) 8,000 |  |


$\frac{\text { Cash }}{\qquad}$| (j) 8,000 |
| :--- |

## Payment of Utilities

Eli's Consulting Services issued a check for $\$ 650$ to pay the utilities bill.

Analysis:
(k) The asset account, Cash, is decreased by $\$ 650$.
(k) The expense account, Utilities Expense, is increased by $\$ 650$.

| Utilities Expense |  |
| :--- | :--- |
| (k)650 |  |
|  |  |

Section 2, Objective 3-4: Set up T accounts for revenue and expenses.

## Owner's Withdrawals



- Drawing decreases owner's equity.
- Decreases in owner' s equity appear on the left side of the T accounts.


## The Owner Withdraws Funds

## Trayton Eli wrote a check to withdraw $\$ 5,000$ cash for personal use.

## Analysis:

(I) The asset account, Cash, is decreased by $\$ 5,000$.
(I) The owner's equity account, Trayton Eli, Drawing, is increased by $\$ 5,000$.

Trayton Eli, Drawing
(I) 5,000

Cash
(I) 5,000

## The Rules of Debit and Credit

- A debit is an entry on the left side of an account.
- A credit is an entry on the right side of an account.
- A double-entry system is an accounting system that involves recording the effects of each transaction as debits and credits in separate accounts.
- Every transaction in a Double entry accounting system has at least one debit and one credit.
-The total of the debits and credits recorded in the separate accounts must be EQUAL.


## Any Account



- Accountants refer to the left side of an account as the debit side instead of saying the left side.
- The right side of the account is called the credit side.


## Rules for Debits and Credits

| ASSET ACCOUNTS |  | LIABLITY ACCOUNTS |  | OWNER'S CAPTAL ACCOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Debit } \\ + \\ \text { Increase Side } \\ \text { (Normal Bal.). } \end{gathered}$ | Credit - Decrease Side | Debit <br> Decrease Side | Credit + + Increase Side (Normal Bal.) | $\begin{gathered} \text { Debit } \\ - \\ \text { Decrease Side } \end{gathered}$ | Credit + + Incease Side (Normal Bal.) |
| OWNER'S DRAWING ACCOUNT |  | REVENUE ACCOUNTS |  | EXPENSE ACCOUNTS |  |
| Debit + Increase Side (Normal Bal.) | Credit - Decrease Side | Debit <br> Decrease Side | Credit + + Increase Side (Normal Bal.) | Debit + + Increase Side (Normal Bal.) | Credit - Decrease Side |

## Section 2: Transactions That Affect Revenue, Expenses, and Withdrawals Learning Objective

## 3-5: Prepare a trial balance from T accounts.

1. Use the proper heading to include who, what, and when information.
2. List the accounts in chart of account order or in the same order as they appear in the financial statement.
3. Enter the ending balance of each account in the appropriate Debit or Credit column.
4. Total the Debit column.
5. Total the Credit column.
6. Compare the column totals. They should be equal.

## The Trial Balance

Eli's Consulting Services Trial Balance
12/31/2019

| ACCOUNT NAME: | DEBIT | CREDIT |
| :--- | ---: | ---: |
| Cash | $\$ 111,350.00$ |  |
| Accounts Receivable | $5,000.00$ |  |
| Supplies | $1,500.00$ |  |
| Prepaid Rent | $8,000.00$ |  |
| Equipment | $11,000.00$ |  |
| Accounts Payable |  | $\$ 3,500.00$ |
| Trayton Eli, Capital |  | $100,000.00$ |
| Trayon Eli, Drawing | $5,000.00$ |  |
| Fees Income |  | $47,000.00$ |
| Salaries Expense | $8,000.00$ |  |
| Utilities Expense | 650.00 |  |
| Totals | $\$ 150,500.00$ | $\$ 150,500.00$ |

## Errors

## Some common errors in a trial balance are:

- Adding trial balance columns incorrectly
- Recording only half a transaction - for example, recording a debit but not recording a credit, or vice versa
- Recording both halves of a transaction as debits or credits rather than recording one debit and one credit
- Recording the incorrect amount for a transaction
- Recording a debit for one amount and a credit for a different amount
- Mathematical errors in calculating account balances
- Forgetting to carry over an account balance to the Trial Balance


## Section 2: Transactions That Affect Revenue, Expenses, and Withdrawals

## Learning Objective

## 3-6: Prepare an income statement, a statement of owner' s equity, and a balance sheet.

- After the trial balance is prepared, the financial statements are prepared.
- Net income from the income statement is used on the statement of owner' s equity.
- The ending balance of the Trayton Eli, Capital account, computed on the statement of owner' s equity, is used on the balance sheet.

| Ell'S CONSULTING SERVICES <br> Income Statement Month Ended December 31, 2019 |  |  |
| :---: | :---: | :---: |
| Revenue Fees Income |  | 47,000.00 |
| Expenses |  |  |
| Salaries Expense | 8,000.00 |  |
| Utilities Expense | 650.00 |  |
| Total Expenses |  | 865000 |
| Net Income |  | 38,350.00 |


|  | EII'S CONSULTMG SERVICES |
| :---: | :---: | :---: |
| Statement Of Owner's Equity |  |
| Month Ended December 31, 2019 |  |

Trayton Eli, Capital, Dec. 1, 2019
Net Income for December
Less Withdrawals for December
Increase in Capital
Trayton Eli, Capital, Dec. 31, 2019

| EII'S CONSULTING SERVICES <br> Balance Sheet December 31, 2019 |  |  |  |
| :---: | :---: | :---: | :---: |
| ASSETS |  | LIABILITIES | - |
| Cash | 111,350.00 | Accounts Payable | 3,500.08 |
| Accounts Receivable | 5,000.00 |  |  |
| Supplies | 1,500.00 |  |  |
| Prepaid Rent | 8,000.00 | OWNER'S EQUITY |  |
| Equipment | 11,000.00 | Trayton Eli, Capital | 133,350.00 |
| Total Assets | 136,850.00 | Total Liabilities and Owner's Equity | 136,850.00 |

## Section 2: Transactions That Affect Revenue, Expenses, and Withdrawals Learning Objective

## 3-7: Develop a chart of accounts

- Each account has a number and a name.
- The Balance Sheet accounts are listed first, followed by the Statement of Owner's Equity accounts, ending with the income statement accounts.
- The account number is assigned based on the type of account.
- Each account should have a number assigned to its title (name)
- Balance Sheet accounts are listed before income statement accounts.


## Section 2, Objective 3-7: Develop a chart of accounts

| Ell's Consulting Services Chart of Accounts |  |
| :---: | :---: |
| Account Number | Account Name |
| Balance Sheet Accounts |  |
| 100-199 | ASSETS |
| 101 | Cash |
| 111 | Accounts Receivable |
| 121 | Supplies |
| 137 | Prepaid Rent |
| 141 | Equipment |
| 200-299 | LIABILITIES |
| 202 | Accounts Payable |
| 300-399 | OWNER'S EQUITY |
| 301 | Trayton Eli, Capital |
| Statement of Owner's Equ |  |
| 302 | Trayton Eli, Drawing |
| Income Statement Accour |  |
| 400-499 | REVENUE |
| 401 | Fees Income |
| 500-599 | EXPENSES |
| 511 | Salaries Expense |
| 514 | Utilities Expense |

## Permanent and Temporary Accounts

# A permanent account is an account that is kept open from one accounting period to the next. 

A temporary account is an account whose balance is transferred to another account at the end of an accounting period. A temporary account is "zeroed out" at the end of the accounting period.

# Thank You for using 

# College Accounting: A Contemporary Approach 4th Edition 

Haddock • Price • Farina

