

Goals

- Enough background so non-accountants have some idea of what accountants do.
- A shared language of terms for when we work together.
- Appreciation that we all have our parts
 - Engineers tend to stick with cost estimation
 - Economists tend to stick with revenue estimation
 - Accounting types often do the rest with a focus on tax
- Set you up for cash flow forecasts later in the course.
 - Frequent job activity
 - Also needed for business loans and business plans

Enough knowledge to read the basic documents but not enough to create them.

Warnings

- Will feel like drinking from fire hose if you have no background but same pace as intro accounting.
- ► Shortcuts/simplifications to get set up for cash flow forecasts.
 - ▶ Barrier between income statement and balance sheet. Revenue and expenses not immediately reflected.
 - Forget about contra accounts.
 - Simplification of the connection between balance sheet and cash flow statement.
 - ▶ All asset purchases, even inventory, are cash from investments.
 - All borrowing and lending, even accounts receivable/payable, are cash from finance.

Focus on Financial Accounting

- Financial accounting focuses on the preparation of documents for public consumption.
 - Balance sheet (Assets, Liabilities and Owner Equity)
 - Income statement (Revenue and Expenses)
 - Cash Flow statement (Inflows and Outflows of Cash)
- There are other accounting areas
 - Audit (Makes sure people follow the rules and are not misstating things.)
 - Cost or Managerial (Cost benefit, volume studies, accounting approach to much of this class.)
 - Forensic (Get an attorney)
 - Fund and Governmental (Where money is separated and has strings)
 - Tax (Often Different Rules)



This is mostly a discussion of nouns. We will add verbs and get *transactions* later.

https://prezi.com/agobxmlocjgj/accountingnoquiz/

In summary

- Balance Sheet
 - Assets, things that can be owned.
 - Current, things that turn into cash over the normal course of doing business.
 - Fixed, things that require an act of volition to turn into cash.
 - Other
 - Liabilities, things that are owed
 - Current, requires cash in the near future
 - Other
 - ightharpoonup Owner equity, what is left over OE \equiv Assets Liabilities
- Income statement, revenue and expenses
 - ▶ More expenses increase a positive number

Summary (Con't)

- Cash Flow Statement, More cash = increase
 - Operations
 - ▶ Same direction as net income
 - Investments
 - Increase if you sell and asset.
 - Finance
 - Increase if you borrow
 - Increase with new owners investing

For Next Class

Bring an income statement, cash flow statement, and balance sheet for any firm you like.

- ▶ Not Nike or Intel (Or half the class will bring these)
- Avoid banks (Balance sheets look funny)
- Avoid non-us firms (Different sign conventions)
 - US is different than IFS
 - We focus on the US

Bring means, paper or provide a link in slack when asked.

Where to Get The Statments

- https://finance.yahoo.com/
 - ▶ Probably the best of the aggregators.
 - May have parser problems
- http://www.google.com/finance
 - Recently gimped.
 - Very nice API if you work like that.
- https://www.sec.gov/edgar/searchedgar/companysearch.html

Or go to the company webpages and look for "investor relations".

Quiz!

 ${\tt https://prezi.com/rukunfcbnemy/intro-accounting/}$

Connections between the documents

- ▶ Think about the cash flow statement as the consequences of balance sheet and net income changes.
- ▶ Things that change net income changes cash from operations
- Asset purchases and sales change cash from investments.
- Borrowing, lending and owner equity changes are reflected in cash from finance.

Beware of the sign conventions + Positive is inflow of cash. + Cash flow is about cash, so buying an asset results in decrease in cash from investing activities.

How to Drill and Kill the transactions

Resources

- Wiki page http://ec314-pdx-edu.wikidot.com/q1:accounting
- ► There are a small number of transactions I ask about. Thirteen are listed but there are really only eight.
- Bottom of the page has a link to past examples (https://drive.google.com/drive/u/0/folders/ 0B3ilawp4z7olelZTWE5INHJIV0E)
- And videos of my explaining things (https: //www.youtube.com/playlist?p=PL9B50CBC168EDAFC7)
- ▶ Learn the transactions first. Flash cards work well.
- ► Then practice on categorizing actual transactions into the 8 that you know. Use the videos and past examples for this

Flashcards

One side has a transaction like "Buy an asset"

The reverse has something like this.

Rev	Assets ↑↓	Operations
Expense	Liabilities	Investments
	OE	Finance

Example Take Out a Loan

Rev	Assets	Operations
Expense	Liabilities ↑	Investments
	OE	Finance

Example Revenue increase

Rev ↑	Assets	Operations
Expense	Liabilities	Investments
	OE	Finance

Lets Try an Example

This is before Biketown came into existence.

https://drive.google.com/file/d/

0 B3 i lawp 4 z 7 o lc V I 5 TX Q5 dV I 0 WFU/view

Back to the Pre-test

- ▶ Which of the following is *not* an asset?
 - Employees
 - Land
 - Machinery
 - Cash
 - Owner Equity
 - ► Accounts Receivable
- ▶ Which of the following is a liability?
 - Cash
 - Accounts Receivable
 - Owner Equity
 - Tax Owed
 - None of the above
- Which of the following is an expense?
 - Owner Equity
 - A Loan
 - Taxes
 - None of the above