

I would like to point out that I was having little difficulties with calculating the mortgage payment and the property taxes because I am used to using pen and paper but then I checked out the excel pressbook which helped me a lot with the formulas and everything.

Two new things I learned in the process of completing this case that surprised me are one how simple finding rates and payment plans are, and two how well websites are set up when browsing for homes.

Thank you! This was a fun assignment! I learned a lot!

A Re-Design of (degree) Business Mathematics

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“One thing that I learned while doing this case was the extent to how expensive and hard it is to buy a house and pay off a mortgage. There are many more factors to consider than just the asking price... I have learned to apply the concepts to the real-world instead of just in my class and in my assignments. In some sense, when I am doing my assignments, the concepts are just words with little meanings.”

The first thing I learned during this case that came as a disheartening surprise was the sheer amount of money required in actually purchasing a house.

AGENDA

Motivations for Re-Design (Changing learning environment & industry expectations)

Storytelling concept of delivering material

Interdependent Case Studies

Using Excel in Business Math, OER

Brainstorm

Motivations for Re-Design

Changing Learning Environment

- Remote
- Movement toward BYOD – Bring Your Own Device

Industry Expectations

- Working knowledge of Excel
- Ability to analyze a problem and provide solutions

Storytelling for concept delivery

Can be as
interwoven as
you're interested

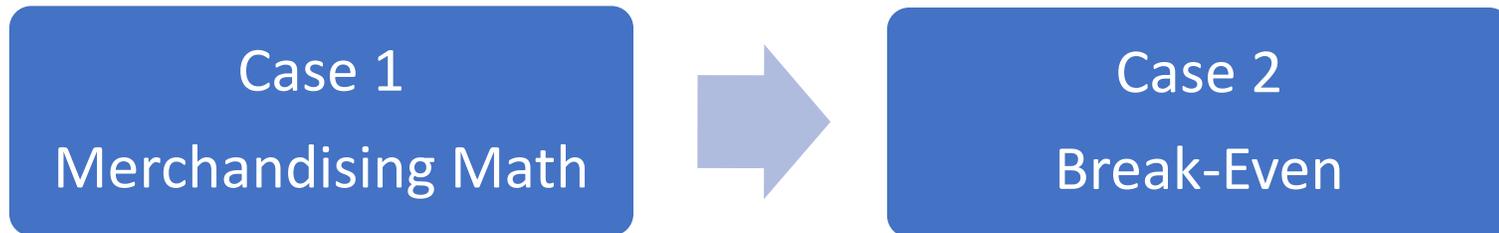
Start small

The idea: connect
math concepts to
real-life/industry
applications

Interdependent Case Studies

3 Cases Total

- Case 1: Merchandising Mathematics & Invoices
- Case 2: Break-Even Analysis



- Case 3: Mortgage

Case 1 & Case 2: Tied to the course story

Case 3: Research, MLS, Bank

Reflection Question on Video

Using Excel in Business Math, OER

- Students were using the BA2+ calculator
- Program review determined that Excel was an important skill for future employment
- Created an OER on Using Excel in Business Math
 - [Using Excel in Business Math – Simple Book Publishing \(pressbooks.pub\)](https://pressbooks.pub)
- Aligned with the course material
 - Examples from the course were shown in Excel
- Case Studies were completed using Excel

Brainstorm

What are YOUR ideas?!

Share them on our Padlet

<https://bit.ly/busmathcase>

Markup & Markdown



Idea: Bake Sale

Description: Students are required to choose a cookie recipe, "buy" enough ingredients to make a predetermined amount of cookies. They determine the cost per cookie and given markup, calculate the selling price of the cookie. At the end of the day, to sell the remaining cookies, they calculate the reduced price by a given discount rate. They need to calculate the profit for the day.

They 'present' their solution & answers to the reflection questions via video recording