

# HOW TO SUCCEED IN MATH 112

## Biggest Tip: Make Connections

Challenge your self to connect the new section with what you already understand. Easier said than done, but this prevents you from getting backlogged and behind later

## DO

- **Understand the Big 3 of Calculus**
  - these are: limits, derivatives, and integrals. Nuances of problems make more sense when you look at them using these concepts.
- **Ask Yourself:**
  - "What is the big idea in this section?"
  - "How does it relate to the overall concept?"
- **Develop a Flexible Understanding**
  - this will help you to assimilate new pieces and details of each section into the Big 3.
- **Build Off What You Know**
  - connect each new section to the previous one to create a resilient and adaptable understanding.
- **Look Outside of Class**
  - Test your understanding by using study group, tutors, and peers instead of just your instructor.



## DON'T

- **Don't Just Memorize Each Section**
  - Instead, understand how each new section builds on the previous one.
- **Don't Fall for the Illusion of Understanding**
  - Instead, test yourself and ask yourself the "why" behind the certain problem.
- **Don't Just Memorize the Formula Sheet**
  - Forget one tiny little symbol and you mess up the entire calculation. Instead, know how the formula works.



## OUT-OF-CLASS RESOURCES

### ONLINE

#### Walk-Through Notes

 [www.math.mit.edu/~djk/calculus\\_beginners/](http://www.math.mit.edu/~djk/calculus_beginners/)

 [www.freemathhelp.com/calculus-help](http://www.freemathhelp.com/calculus-help)

#### Self-Guided Courses

 [www.edx.org/](http://www.edx.org/)

 [ocw.mit.edu/courses/mathematics/](http://ocw.mit.edu/courses/mathematics/)

#### Practice problems

 [www.khanacademy.org/math](http://www.khanacademy.org/math)

 [algebra-and-calculus-resources-year12.weebly.com/](http://algebra-and-calculus-resources-year12.weebly.com/)

 <https://www.albert.io/ap-calculus-ab-bc>

### MOBILE



Calculus FTW  
by MathFTW LLC



Khan Academy



Calculus FTW  
by MathFTW LLC



AP Calculus AB



Socrates Math



Calculus for Beginners



### ON CAMPUS

- **Y-Serve Tutor:** tutoring.byu.edu
- **Study Room Scheduler:** groupstudy.lib.byu.edu
- **BYU Math Department Tutors:** Contact your professor for the list
- **BYU Math Lab:** 159 TMCB

UNIVERSITY ADVISEMENT  
CENTER

OPEN MAJOR ADVISEMENT