How Critical Thinkers do Academics (...Well!)

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Critical thinkers...

- ...learn by understanding
 - ...and realize that they first, and naturally, did this in areas about which they were passionate
- ... understand by exploring multiple facets of each topic, such as...
 - concepts, processes, and roles
- sequences and sizes
- o components, contributors, and relationships
- pros and cons
- o causes, reasons, results, products, and effects
- similarities and differences
- ...identify holes in their understanding while actively reading/listening/practicing/studying
- ...fight to fill those holes from available resources (because no one else can do it for them...) •
 - instructors (strive to learn how they 0 think!)
 - course materials 0
- ...track all of their graded course events on their calendar (with alarms set!)
- ...manage their moments, using otherwise wasted time to fight for understanding
 - ...doing all of the necessary prep to make using those moments possible & productive
- ...plan ahead for inevitable absences and late-night questions by building classmate networks
- ...test their understanding by explaining topics in their own words •
 - ...and working new practice problems (as applicable)
- ... can teach what they have learned to classmates and friends •
- ... prepare for every test as if it was an essay exam, even if it won't be one •
- ...enter and leave examinations with increased confidence •
- ...comprehend how their grades will be calculated, and do the math to track their course grades •
- ...enjoy the cumulative benefits of learning how to learn: relaxation, confidence, expertise, better grades, better job prospects, faster promotions, etc.
- ...know that no subject is beyond their ability to begin learning

Common pitfalls of "easy" thinking:

- Believing that high-school approaches to learning will produce high-quality performance •
 - 0 Reading only to read, attending only to attend, and studying only to study
 - Last-minute cramming, "reviewing" slides/notes, highlighting, rote memorization 0
- Studying to merely recognize
 - Works well only when told in detail what will be on the exam, and/or when exam questions come 0 in expected form
- Underestimating the time and effort necessary to achieve understanding
 - "Time management" (vs. moment management) likely NOT sufficient
- Expecting great results from little effort or wasted effort

- 0 classmates
- internet, library 0
- 0 tutors