



# WABASH CENTER

For Teaching and Learning in Theology and Religion



## Less Is More

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When it comes to effective teaching, “less is more.” While the brain is an amazing information and multi-sensory processor, research suggests it can only effectively learn one new thing (concept) at a time. The maximum number of “bits of information” the brain can process at any given time is eight (like in the “eight bits” of a computer chip), or, as sometimes notated “7 +/- 2” (seven plus or minus two).<sup>\*</sup> When it comes to teaching, we do well to focus on teaching one new concept at each learning session (that’s one new concept per class session!).

That guide can help inform the structure and scope of your course. It's a helpful corrective to the common anxious temptation of trying to cover too much during a course. So, for a twelve-week course, teach twelve interconnected or derivative concepts! No more!

How much information are you trying to pass on to your students in one sitting? How effective are you in focusing on the *single most important thing* you want your students to learn during a single class period?

To be more effective in your teaching, try these suggestions:

- Aim at teaching only *one* thing at a time (one concept, one principle, or one big idea)
- Focus on teaching a central concept and no more than two derivative concepts
- Spend time on rehearsal of the concept (define it, clarify what it is and what it isn't, provide examples and non-examples, illustrate it, apply it)
- Test for comprehension

- Correct misunderstanding(s) of or about the concept
- Provide an opportunity for learners to apply the concept.

The truth is that learning is a complex enterprise and we are not very efficient at it. Learning involves multifaceted and interrelated processes like attention, motivation, comprehension, concept attainment, rehearsal, reinforcement, acceptance, valuing, accommodation, and application. In order to teach effectively we need to facilitate the learning process for our students as much as possible. Two guidelines that will always serve us well in teaching are: (1) less is more, and (2) K.I.S.S. ("Keep it simple, stupid").

\*See George Miller, "The Magical Number 7, Plus or Minus 2: Some Limits on Our Capacity for Processing Information," *Psychological Review* 63:81-97 (1956). More current literature on learning that takes into account brain research supports this concept.

<https://www.wabashcenter.wabash.edu/2019/12/less-is-more/>