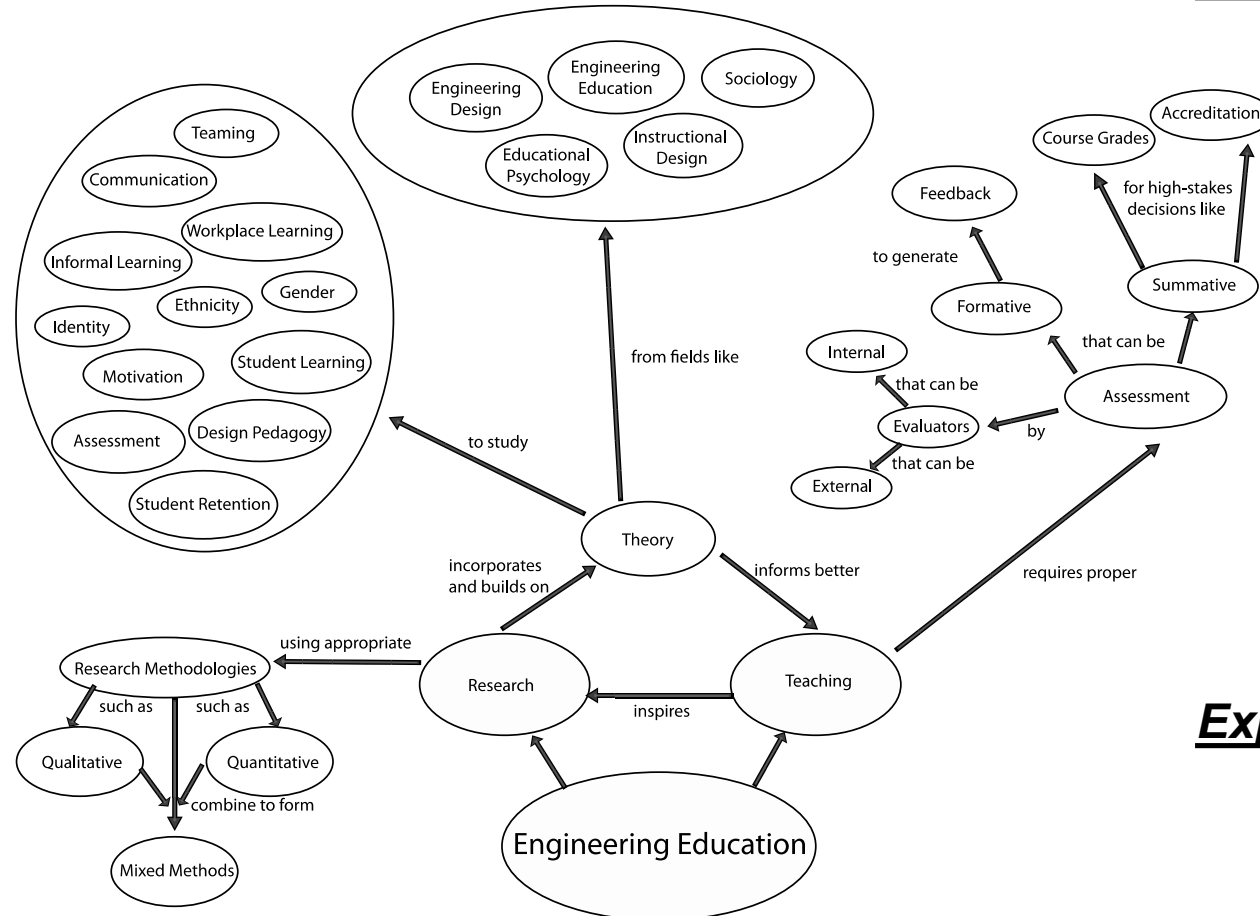




Dr. Chris Venters
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 Conceptual Knowledge Development and Assessment, Links between
 Conceptual and Procedural Knowledge, Writing-to-Learn in Engineering,
 Expertise and Metacognition



Conceptual Knowledge

- Pedagogies supporting concept formation and revision
- Assessment tools and strategies to evaluate conceptual knowledge
- Misconception identification and concept inventories
- The role of procedural and conceptual knowledge in engineering mechanics courses
- Using writing-to-learn as a means of conceptual knowledge development in engineering

Expertise and Metacognition

- Knowledge structures of experts and novices
- Pedagogies supporting metacognitive knowledge and skill development