

A REVIEW OF LITERATURE: CAPSTONE COURSES IN AGRICULTURE



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Capstone courses integrate theoretical knowledge and practical skills gained throughout their academic journey to prepare them for their future careers while providing a comprehensive overview of their chosen areas of interest or career fields.

01 INTRODUCTION

Capstone courses are transformative learning experiences.

- focus on career preparation
- serve as a bridge to the world of work after graduation.

In the twenty-first-century classroom, these courses are high-impact academic experiences that address an array of critical educational processes and outcomes related to the application of learned skills

02 OBJECTIVE

The goal of this study was to identify the approaches by synthesizing the various aspects of capstone courses and related experiences.

03 RESEARCH QUESTIONS

1. What are the significant features of the included studies such as university size, location, and undergraduate major?
2. What are the methodological features of the included studies such as sample size, type of study, and methods used?
3. What are the characteristics of effective capstone courses in agriculture for undergraduate students?
4. What is the impact of capstone courses on students' learning outcomes in undergraduate agricultural majors?

04 SCOPING REVIEW

JBIR Scoping Review Framework (Peters, Godfrey et al, 2020)

PRISMA-ScR (Tricco et al, 2018) checklist guided the reporting

- 1st: Objectives and research questions defined
- 2nd: Inclusion criteria developed to support the research questions
- 3rd: Plan created for finding, selecting, coding and presenting evidence
- 4th: Databases and journals searched for appropriate literature.
- 5th: Studies that fit the inclusion criteria selected.
- 6th: Relevant information taken from the studies.
- 7th: Data taken from the studies analyzed.
- 8th: Results presented along with future research directions.

05 SUMMARY

Exploring the relationship among factors influencing capstone courses allows methods to be refined and duplicated; thus, providing educators a roadmap.

- Each capstone experience was unique
- The same results obtained through different design methods
- Components identified that impact course design: project, employer engagement, group work
- Factors that indicate assessment effectiveness: workforce competencies and employability
- Measurements are necessary to evaluate course