



1st SEMESTER 2015/2016

PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE DEGREE IN AGRONOMY  
YEAR 4

COURSE CODE: CP 402

TITLE OF PAPER: BIOFUEL CROP PRODUCTION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER QUESTIONS ONE AND TWO, WHICH ARE  
COMPULSORY AND ANY OTHER TWO (2) QUESTIONS  
OF YOUR CHOICE

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED  
BY THE CHIEF INVIGILATOR

**QUESTION 1**  
**(THIS IS A COMPULSORY QUESTION)**

Discuss how Swazis can adapt to climate change in crop production.

(28 Marks)

**QUESTION 2**  
**(THIS IS ALSO A COMPULSORY QUESTION)**

Explain the following terms. Each question carries four marks.

- (a) Carbon pricing
- (b) El niño
- (c) Rapid multiplication of sweetpotato
- (d) Feedstocks
- (e) Characteristics of plants grown in environment with high levels of carbon dioxide
- (f) Moringa as a feedstock.
- (g) Status of ethanol production in Swaziland and in Brazil

(28 Marks)

**QUESTION 3**

Discuss the future of sugarcane production in Swaziland

(22 Marks)

**QUESTION 4**

[a] Explain why there has been renewed interest in biofuel crop production and use in recent years. [12 marks]

[b] Can the renewed interest be sustained? If yes, why? If not, why not? [10 marks]

(22 Marks)

**QUESTION 5**

Discuss the term "Carbon sequestration"

(22 Marks)