



School of Education

EDST5303  
Learning and Problem Solving

Term 3 2021

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## 6. COURSE CONTENT AND STRUCTURE

The course is structured to be completed online through Moodle. Time should be assigned each week to complete the learning activities - viewing lectures, videos, reading, researching, posting, and responding to discussion forums.

Module	Topics
1	Introduction to the course
2	Human Cognitive Architecture <ul style="list-style-type: none"><li>- Working Memory</li><li>- Long-term memory</li><li>- The role of schema construction and automation in the development of expertise</li><li>- Evolutionary and information processing principles guiding learning and teaching</li></ul>
3	Problem solving and the role of prior knowledge and expertise
4	Cognitive Load Theory



## **Assessment Details**

### **Assessment Task 1**

Write an essay based on the material covered in the course focusing on its application to specific individual teaching areas. This essay should consist of an in-depth discussion of the theoretical and applied issues associated with a selected topic.

Possible essay topics will be discussed further in class.

### **Assessment Task 2**

A 20-item multiple choice online test on major components and processes of human cognitive architecture.

### **Assessment Task 3**

A presentation on a course related topic. Students make an 8-10-minute presentation on an application of the theory covered in this course using their own teaching/learning materials or teaching episodes on a topic chosen by the student. The focus should be on using specific methods and techniques discussed in this course.

The presentation should be uploaded to Moodle for other students to view.



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Student Name:  
Assessment Task 1: **Major essay**

Student No.:

**SPECIFIC CRITERIA**

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