

**SIMON FRASER UNIVERSITY  
SPRING SEMESTER 2006**

**EDUC 212-3  
MATHEMATICAL EXPERIENCE II: SHAPE AND SPACE  
(D01.00)**

**Stephen R. Campbell, Ph.D**  
**Office: EDB 8643**  
**Phone: (604) 291-3630**

Office Hours: by appointment

**Dates:** January 10; 17; 24; 31  
February 7; 14; 21; 28  
March 7; 14; 21; 28  
April 4  
**Time:** 10:30AM to 1:20 PM  
EDB 8500 - CET Instructional Lab

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**PREREQUISITE: STUDENTS WHO HAVE CREDIT FOR MATH 151, MATH 154, OR MATH 157 NEED SPECIAL PERMISSION TO PARTICIPATE IN THIS COURSE.**

**Text:** Burger, E. B., & Starbird, M. (2000). The Heart of Mathematics. Key College Publishing. 2nd Edition.

**Material:** Scientific Calculator  
Geometry Set (Protractor, Compass, etc.)  
Ruler; Pencil & Eraser; Scissors; Tape; Glue Stick

**Course Requirements:**

**1. Homework (20%)**

Throughout the course there will be homework assigned. The homework will be a collection of recommended questions along with some required questions. It is RECOMMENDED that you do the recommended questions. The required questions are to be handed in at the beginning of class on the due date. Of these only some will be marked. However, an answer key to all the required questions will be provided when the homework is returned. Although it is understood, and expected, that you will collaborate with each other in completing these homework assignments, each person must hand in their own homework assignments. To avoid plagiarism (the university policy on plagiarism holds) a good rule of thumb is that all spoken ideas are okay to share. There will be 7 assignments in all. They will typically be assigned on Wednesdays and due the following Wednesday.

**2. Group Project (20%)**

In addition to the homework there will be a more substantive project to be done in groups of 2 or 3. The details of this project are yet to be finalized, but I can tell you they will be due on March 28th.

**3. Midterm (20%)**

There will be an in-class midterm on February 28th. The midterm will consist of course content covered up to that point as well as some problem solving activities. A balance will be sought between

memorization and understanding.

#### 4. Final (40%)

There will be a take home final at the end of the course. This will consist of you picking up and dropping off the final at a specified time and place. No collaboration or outside help will be permitted for this final.

#### 5. Participation (0%)

Participation is mandatory for this course. This will take three forms — attendance, group work, and involvement in class discussion. If class is missed for either a foreseeable or an unforeseeable reason, please see me, and a makeup assignment will be arranged. A large part of every lesson will involve small group work and whole class discussion. Your involvement in both of these is expected. Learning happens through dialogues as well as through monologues.

#### Deadlines:

Item	Assigned	Due
Homework #1	January 17	January 24
Homework #2	January 24	January 31
Homework #3	January 31	February 7
Homework #4	February 7	February 14
Midterm	February 28	
Homework #5	March 7	March 14
Homework #6	March 14	March 21
Project	January 31	March 28
Homework #7	March 28	April 4
Final	April 17	April 20

#### Grading:

Final Marks	Grade	Check	Qualitative Remarks
96-100+	A+		Exemplary
91-95	A	*	Excellent
86-90	A-		Excellent
81-85	B+		Very good
76-80	B+		Very good
71-75	B-		Very good
66-70	C+		Good
61-65	C	√	Good
56-60	C-		Good
46-55	D	-	Marginal
0-45	F	o	Unacceptable (Fail)

#### Acknowledgment:

Thanks to Professor Liljedahl for the basic outline for this course offering