

**EDUC 475-4 Designs for Learning: Mathematics  
(Elementary)**

**Room:** MPX 7500(Back)  
**Time:** Wednesday, 1:00 to 5:00 pm  
**Dates:** May 3 to July 26

**Professor:** Dr. Tom O'Shea  
**Office No.:** MPX 8558  
**Office hours:** by appointment  
**Telephone:** 291-4517  
**Fax:** 291-5882  
**e-mail:** oshea@sfu.ca

**Texts:** British Columbia Ministry of Education. (1996). Mathematics K-7: Integrated Resource Package. Victoria, BC: Author. [available on-line at <http://www.bced.gov.bc.ca/irp/>]

Van de Walle, J. A. (1998). Elementary and middle school mathematics: Teaching developmentally (3<sup>rd</sup> ed.). New York, NY: Longman.

**COURSE SCHEDULE:**

<u>Date</u>	<u>Topic</u>	<u>Textbook Readings</u>		<u>Assignment Deadlines</u>
		<u>IRP</u>	<u>VdW</u>	
May 3	Introduction	---	(1)	
May 10	Overview	Preface	2,3 (24)	
May 17	Effective instruction	Intro	22 (23)	
May 23	Problem solving	App G	4	(Project approval)
May 30	Assessment	App D	5	
June 7	Numerical operations	Number	7 (6)	Investigation ass't
June 14	Place value & mental math	No. ops.	9,10 (8)	
June 21	Whole number computations	---	11	Technology ass't
June 28	Fractions	Patt/rel.	12,13	Print resources ass't
July 4	Decimals & percents	---	14 (15)	(Project progress report)
July 11	Measurement	Meas.	16 (18)	Activity reflection ass't
July 18	Geometry	3D/2D	17 (20,21)	
July 25	Data analysis	Data An.	19	Individual project

**COURSE REQUIREMENTS** (see individual assignment descriptions)

1. Investigation Assignment (20%)
2. Technology Assignment (20%)
3. Print Resources Assignment (20%)
4. Activity Reflections Assignment (20%)
5. Individual Project (20%)

Each assignment will be marked on an 11-point scale: 0, 11,12,13,14,15,16,17,18,19,20

**GRADING STRUCTURE**

<u>Total Marks</u>	<u>Grade</u>
96 - 100	A+
91 - 95	A
86 - 90	A-
81 - 85	B+
76 - 80	B
71 - 75	B-
66 - 70	C+
61 - 65	C
56 - 60	C-
46 - 55	D
00 - 45	F

*The instructor reserves the right to move grades one step up or down based on attendance and participation.*