

Pure Mathematics 319 Transformation Geometry

(see Section 3.5C of Faculty of Science www.ucalgary.ca/pubs/calendar/current/sc-3-5.html
and Course Descriptions: <http://www.ucalgary.ca/pubs/calendar/current/course-main.html>)

Reference text: "Transformation Geometry", by G.E. Martin. (not necessarily a required text)

Syllabus

<u>Topics</u>	<u>Number of hours</u>
Ch.1: Introduction (geometry and algebra)	3
Ch.2: Transformations	1
Ch.3: Translations and halfturns	3
Ch.4: Reflections	1
Ch.5: Isometries	3
Ch.6: Translations and rotations	2
Ch.7.1: Even isometries	3
Ch.8.1: Glide reflections	2
Ch.7.2 and 8.2: Symmetry	4
Ch.10: Frieze groups	4
Ch.11: Wallpaper groups	6
Student project and presentations	3
Mid-term exam	1
	36

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