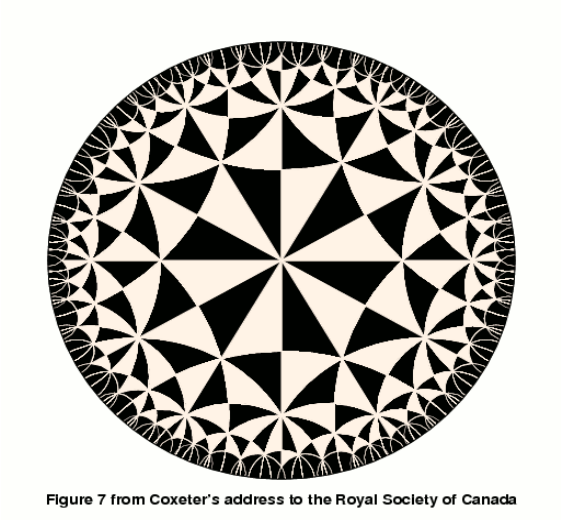


Figure 7 from Coxeter's address to the Royal Society of Canada

scott m. lewis
hertz 225
phone: 963-1803
fax: 963-3226
hours:
m, w, f 1:00pm
else, by appointment, gleeflully accepted

links:

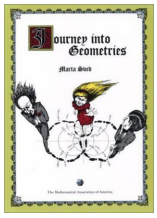
euclid's elements online (start here)
general history of mathematics (from trinity college, dublin)
t. l. heath's translation of euclid's elements
historical timeline

of course, there are many other resources out there. find some of them and report back to me.

college geometry II
math 455
3 credits
black 136
mwf - 12:00pm

prerequisites: Permission, MATH 355 and MATH260.

text:
sved, marta (2018). *journey into geometries*. cwu coursepack.



description:
in the history of humankind there have been a handful of achievements that have been important; capturing something special either of the spirit, the aesthetic, or the intellect of us all. the development of modern geometry is one of those achievements. it is for that reason that everyone with a college degree should have, along with a little shakespeare and a few other things, a couple quarters of geometry.

historically speaking, the roots of the subject go back to the origins of human thought and tell a fascinating story. one of the most fundamental questions of the field can be stated in this way: 'given a line, l, and a point, p, not on l, how many lines exist through p, parallel to l?' it's amazing how such a simple question can have such an interesting set of solutions with such far-reaching consequences.

there are some links in the left sidebar of this page. take the time to explore what some people in other universities are interested in. there are other possibly useful links back at my home page.

this quarter we will cover the following :

check out the class calendar.

this quarter we will study the following:

properties of axiomatic systems
finite geometries
families of circles
inversive geometry
the poincare' disk model for hyperbolic geometry

evaluation:
the bulk of your grade (95%) will be determined by two midterms (30% ea.) and a final examination (35%). the first midterm will take place (and be graded) before the deadline for dropping the class.

the remaining 5% of your grade will be based on the homework assignments i collect, the several,

unannounced but straight-forward quizzes we have, and things like class participation.

if you have any questions or comments, feel free to come by my office or e-mail me at the address below.

student learner outcomes
the most important things you learn in school are not going to be measurable, sorry. in fact, the absolute best service a list of 'student learner outcomes' could possibly provide is as a random sample of behavioral objectives. that said, at the end of this course, you will have a reasonable facility (as measured by the evaluation procedures described above) in constructing sound mathematical proofs with a variety of techniques in the development of some of the basic concepts underlying non-euclidean geometry.

note
students with disabilities who wish to set up academic adjustments in this class should give me a copy of their *confirmation of eligibility for academic adjustments* from the disability support services office so that we can meet in order to discuss how the approved adjustments will be implemented in this class. students with disabilities without this form should contact the disability support services office, bouillon 205 or dssrecept@cwu.edu or 963-2171 as soon as possible.

no, no, no!
no late assignments, no early tests, no late tests, no make-up tests (including finals ... be there).

| post no bills |

---

spring 2018.

scott m. lewis, slewis@fulbrightweb.org
there's no place like home.