Syllabus (Spring 2013)
MA 3330-01 – Non-Uniform Geometries (3 credits)
MWF 2:30-3:20am, 206 Elliott
Howard Iseri

My wife Linda is also a member of the Math and CIS faculty, so there are two Drs. Iseri. Call me Howard.

Office: 213B Elliott Hall. Email: hiseri@mansfield.edu. Web page: http://faculty.mansfield.edu/hiseri. Phone: 662-4701 (I like email messages a lot more than phone messages).

Office Hours: 1:30 MWF, 10:00 TTh.

Course Description: (3 credit hours) A study of the modern geometries leading up to the geometry of manifolds. Topics include: Euclid’s “algebraic” propositions, Descartes’ analytic geometry, the analytic approach to Euclidean geometry, Euclid’s and Hilbert’s axioms as theorems in analytic geometry, Euclid’s Fifth Postulate and the birth of non-Euclidean geometry, Descartes’ lost manuscript and the angle deficit, angle deficit and curvature, the polyhedral Gauss-bonnet theorem, paper models of curved surfaces, and in introduction to Gaussian curvature and Riemannian geometry. MA 3329 and MA 3330 may both be taken for credit and either course can be taken before the other.

Program Objectives: This course or MA 3329 may be used to satisfy the Geometry requirement in the BSE Mathematics program. It may also be used as an upper-level math elective in all programs with such a requirement. Program objectives addressed by this course include learning basic geometric structures, spatial reasoning, proofs, and mathematical justification.


Required Materials: You will need access to the documents on my web page, which will generally be in PDF format, which will require something like Adobe Reader to read (see my web page for a free download).

Assignments: 10% total Homework and quizzes.
22% each Three Tests (Wednesdays, February 20th, March 13th, April 17th).
24% Final Exam (Monday, May 13th at 3:15pm).

Letter Grades: I will assign letter grades based on the following percentages. An A is 93% or better, an A- is 90% or better, a B+ is 87% or better, a B is 83% or better, a B- is 80% or better, a C+ is 77% or better, a C is 73% or better, a C- is 70% or better, a D+ is 67% or better, a D is 63% or better, and a D- is 60% or better. Anything below 60% is an F.

Material to be covered: See Course Schedule for a detailed list of topics.

Student Consumer Rights and Responsibilities: The Higher Education Opportunity Act (Public Law 110-315) (HEOA) was enacted on August 14, 2008, and reauthorizes the Higher Education Act of 1965, as amended (the HEA). The HEOA (2008) requires colleges and universities to provide students with information necessary to make informed decisions concerning their educational experiences. Mansfield University strives to serve its students fairly and equitably. The following MU website provides an inclusive list by topic of student consumer rights and responsibilities: http://mansfield.edu/HEA/.

Copyright: The University fully supports the Copyright Laws of the United States. Respect for intellectual labor and creativity is vital to academic discourse and enterprise. This principle applies to any original work in any tangible medium of expression. Images displayable on computer screens, computer software, music, books, magazines, journals, photographs, and articles are among items subject to copyright. A work need not be explicitly labeled with a copyright notice to be afforded copyright protection. For more information on Copyright please consult the Mansfield University Copyright Information website: http://mansfield.libguides.com/copyright

Students Requesting Academic and/or Access Accommodations: Students with documented psychological or learning disorders or other significant medical conditions may affect their abilities to participate in courses at Mansfield University should consult with Professor William Chabala (141 South Hall, Phone: 662-4798; e-mail wchabala@mansfield.edu). The personnel in his office will work with you to provide your professor with an appropriate letter of recommended academic accommodations. This process intends to better serve your particular academic needs. If your exceptionality requires class or testing accommodations, Professor Chabala will work with you to identify and implement appropriate interventions.

Attendance Policy: Regular and punctual class attendance is expected. All faculty members are required to accept documented excuses because of illness, serious mitigating circumstances, or official university representation, and to permit students to make up missed tests and/or graded assignments in a reasonable manner. As an excuse, I will accept an explanation from you. Please do not waste someone’s time (like a doctor) to get a note for me (although other
instructors may require this). If possible, make arrangements ahead of time for tests, and otherwise, I will likely use the Final Exam as a make-up test.

**Academic Integrity:** The integrity of all scholarly work is at the foundation of an academic community. Students are expected to do their own academic work. Dishonesty in academic work, including cheating, academic misconduct, fabrication, or plagiarism is unacceptable. Faculty are expected to instruct students in ways of avoiding these forms of academic dishonesty. Faculty are also responsible for assessing and reporting all charges of academic dishonesty to the Office of the Provost. See the policy and procedure listed at: [http://mansfield.edu/academic-affairs/resources-for-faculty/forms-and-procedures/](http://mansfield.edu/academic-affairs/resources-for-faculty/forms-and-procedures/) under “Academic Integrity Policy.”