Math Comps Preferences

Math and math/stats majors in the class of 2014 should return this form to Deanna Haunsperger by noon on Friday, May 3. All of the information on this form will be kept confidential. While we will try to honor everyone’s preferences, there may be situations in which we cannot.

Name: __________________________________________________

Please indicate the order in which you prefer these projects, with 1 being your first choice. Please rank all choices until you rank Independent Comps and then you may stop. Descriptions and prerequisite information are available online.

_____ **Consequences of Alcohol Use in a Social Network of College Students**, Miles Ott, Fall-Winter
   No prerequisites.

_____ **The Dynamics of Quadratic Mappings**, Sam Patterson, Fall-Winter
   Prerequisite: 251 Chaotic Dynamics

_____ **Alternating Sign Matrices, Pattern Avoidance, and Domino Tilings of Aztec Diamonds**, Eric Egge, Fall-Winter
   Prerequisite: 333 Combinatorics or its Budapest equivalent

_____ **Fluid-dynamical Models of Rock Deformation**, Josh Davis, Fall-Spring (this does not meet during winter term)
   No prerequisites.

_____ **Surfing on Wavelets**, Jack Goldfeather, Winter-Spring
   No prerequisites.

_____ **Boolean numbers and graph-induced sequences**, Andrew Gainer-Dewar, Winter-Spring
   No prerequisites.

_____ **Strange Worlds in Number Theory**, Rafe Jones, Winter-Spring
   Prerequisite: 395: Topics in Algebraic Number Theory during Winter 2014

_____ **Mathematics of Games**, Tommy Occhipinti, Fall-Winter
   No prerequisites.

_____ **Environmental Statistics**, Katie St. Clair, Winter-Spring
   Prerequisites: 265 and 245 (can be taken concurrently during Winter 2014)

_____ **Independent comps**
   Circle: 3 credits or 6 credits
   If 6 credits, circle Fall/Winter or Winter/Spring
   If 3 credits, circle Fall or Winter or Spring
Which upper-level math courses have you taken? Circle all taken.

241 Ordinary Differential Equations
244 Geometries
245 Applied Regression Analysis
251 Chaotic Dynamics
265 Probability
275 Introduction to Statistical Inference
295 Set Theory Seminar (Nelson)
295 Differential Forms and Vector Calculus (Patterson)
295 Topics in the History of Mathematics (Kennedy)
312 Elementary Number Theory
315 Stochastic Processes (Dobrow)
315 Introduction to Sampling Techniques (St. Clair)
315 Statistical Computing (Chihara)
321 Real Analysis I
331 Real Analysis II
332 Advanced Linear Algebra
333 Combinatorial Theory
341 Fourier Series
342 Abstract Algebra I
344 Differential Geometry
349 Methods of Teaching Math
351 Functions of a Complex Variable
352 Topics in Abstract Algebra (Groups and Galois Thy)
352 Topics in Abstract Algebra (Representation Thy)
354 Topology
395 Surfaces (Wong)
395 Creating Symmetry (Farris)

Are there students you strongly prefer to work with?

Are there students you strongly prefer not to work with?

Which is more important to you: the students you work with, or the project you work on?

Will you be away from campus for one or more terms next year? Which terms? Why?

Is there anything else we should know about your comps preferences?