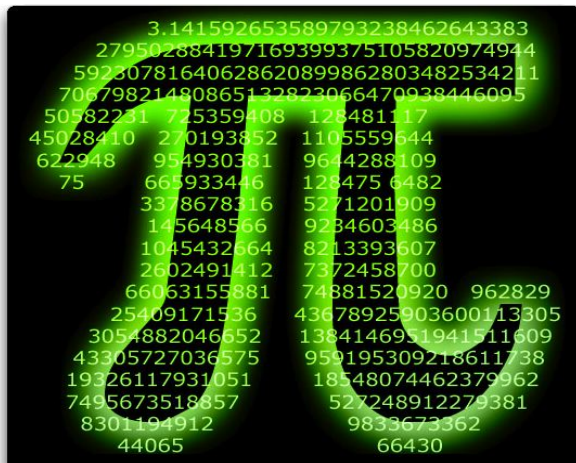




# The Villanova Sum Times

**March 2010 Issue**

*Villanova University Department of Mathematical Sciences*



## In This Issue:

- ∞ MATH ELECTIVES FOR 2010
- ∞ MATHEMATIC RESOURCES
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## MARK YOUR CALENDERS! Pi DAY

YOU'RE INVITED TO CELEBRATE PI DAY WITH US BY ATTENDING A PI DAY PARTY

FOR ALL MATH MAJORS, MATH FACULTY AND STAFF.

**MONDAY, MARCH 15, 2010**

**11:30 A.M. TO 1:30 P.M.**

**SAC305 CONFERENCE ROOM**

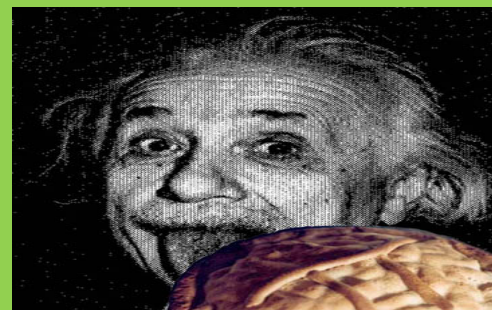
Lunch will be provided.



RSVP to [lorraine.mcgraw@villanova.edu](mailto:lorraine.mcgraw@villanova.edu)

**PURE  
MATHEMATICS IS,  
IN ITS WAY, THE  
POETRY OF  
LOGICAL IDEAS.**

*~Albert Einstein*



## REGISTRATION INFORMATION

Please be sure to make an appointment with your advisor prior to your registration time. All advisors have their office hours posted outside their offices.

## MATH ELECTIVES FOR FALL 2010

**MAT 4270 – 001 & 002 Numerical Analysis CRN: 24866 & 24867**

**Dr. Charles Ashley**

**MWF 11:30 – 12:20 p.m. (section 1)**

**MWF 1:30 – 2:20 p.m. (section 2)**

Numerical analysis is the study of computing approximations to mathematical problems. We study methods to approximate the roots of equations, derivatives, integrals, differential equations, and systems of equations to name a few. The methods often involve producing a sequence of approximations so questions of whether the sequence converges and how fast it converges are studied. This course will count as math major's second analysis requirement. The software Maple will be used to help make our approximations, though students may use software if desired.

**MAT 4310 – 001 & 002 Statistical Methods CRN: 24868 & 24869**

**Dr. Joseph Pigeon**

**MWF 9:30 – 10:20 a.m. (section 1)**

**MWF 12:30-1:20 p.m. (section 2)**

This course is an introduction to data summarization and various statistical methods that will allow students to begin to build up a toolbox of statistical techniques for handling data analysis. The class will study probability distributions that will serve as the foundations for these methods. The statistical methods that the class will study include point estimates, interval estimates and hypothesis tests for population means, variances and proportions, categorical data analysis, regression and correlation.

**MAT 5110 - 001 Topics in Geometry CRN: 24870**

**Dr. Alice Deanin**

**Th 6:15 – 8:45 p.m.**

Topics in Geometry is a delectable smorgasbord of Euclidean and non-Euclidean geometries, tilings and tessellations, and geometric constructions.

**MAT 5700-001 Math Statistics I CRN: TBA**

**Dr. Jesse Frey**

**T Th 1:00 – 2:15 p.m.**

**This course can count as the upper level analysis course**

Probability, random variables, joint distributions, expected values, limit theorems, distributions derived from the normal distribution.

## RESOURCES FOR UNDERGRADUATES IN MATHEMATICS

- ∞ Association for Women in Mathematics  
[www.awm-math.org](http://www.awm-math.org)
- ∞ Mathematical Association of America  
[www.maa.org](http://www.maa.org)
- ∞ National Council of Teachers of Mathematics  
[www.nctm.org](http://www.nctm.org)
- ∞ Society for Industrial and Applied Mathematics  
[www.siam.org](http://www.siam.org)

## JOKE OF THE MONTH

**Q: WHY DO YOU RARELY FIND MATHEMATICIANS SPENDING TIME AT THE BEACH?**

**A: BECAUSE THEY HAVE SINE AND COSINE TO GET A TAN AND DON'T NEED THE SUN!**