

- **INSTRUCTOR:** Anton Leykin, office = SEO 716, e-mail = leykin@math.uic.edu
- **WHEN:** MWF 10:00 am-10:50 pm
- **WHERE:** We will meet at the computer lab SEL 2249 on Mondays and in the seminar room SEO 512 on Wednesdays and Fridays.
- **TEXTBOOK:** The main text is Cox, Little, O'Shea, "Using algebraic geometry", Springer GTM, 1998.

Coming to the UIC bookstore in October; available from amazon.com (paperback: \$34.36 + free shipping). The only library copy of the book is in the reserve room in the main library.

- **OTHER LITERATURE:**

- Cox, Little, O'Shea, "Ideals, varieties, and algorithms", Springer UTM, 1997.
- Eisenbud, "Commutative Algebra with a view toward algebraic geometry", Springer GTM, 1995.
- Edited by Eisenbud, Grayson, Stillman and Sturmfels, "Computations in algebraic geometry with Macaulay 2", Springer, "Algorithms and Computations in Mathematics" #8, 2001
- Greuel, Pfister, "A SINGULAR Introduction to Commutative Algebra", Springer, 2002.

- **SOFTWARE:** We will use two computer algebra systems:

- Maple (available for \$30 from ACCC Software sales)
- Macaulay 2 (freeware).

Maple is installed in the labs throughout the campus, Macaulay 2 installation has been promised for SEL 2249. Both Maple and Macaulay 2 could be found on the computers in the math department.

- **MATH 531 SITE:** Announcements, assignments and other related information will be posted at <http://www.math.uic.edu/~leykin/math531/>
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