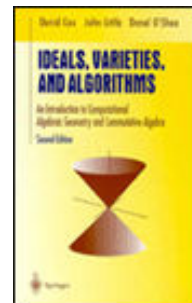


# COMPUTATIONAL COMMUTATIVE ALGEBRA

MATH 413/811 : 2006

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**Instructor:** G.G. Smith (512 Jeffery Hall, 533-2438)

**Teaching Assistant:** John Kimball

**Office Hours:** (Smith) Wednesday 14:30-15:30 in 512 Jeffery Hall

**Prerequisites:** Math 210, 310 or 313

**Lectures:** (slot 011)

Monday, 11:30-12:30 in 319 Jeffery Hall

Tuesday, 13:30-14:30 in 319 Jeffery Hall

Thursday, 12:30-13:30 in 319 Jeffery Hall

**Lab:** Tuesday, 14:30-15:30 in 155 Jeffery Hall

**Project Presentations:** Monday, December 4, 2006 from 9:00-18:00

**Textbook:** David Cox, John Little, and Donal O'Shea, *Ideals, varieties, and algorithms, an introduction to computational algebraic geometry and commutative algebra*, Second Edition, Undergraduate texts in mathematics, Springer, New York, 1996, ISBN 0-397-94690-2

**Textbooks on Reserve at the Engineering & Science Library:**

- David Cox, John Little, and Donal O'Shea, *Ideals, varieties, and algorithms, an introduction to computational algebraic geometry and commutative algebra*, Second Edition, Undergraduate texts in mathematics, Springer, New York, 1996
- David Cox, John Little, and Donal O'Shea, *Using algebraic geometry*, Graduate Texts in Mathematics 185, Springer, New York, 1998
- Bernd Sturmfels, *Solving systems of polynomial equations*, CBMS regional conference series in

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2006.11.23