

Resources Used in the ATC Program 2013–2014

Resources Provided to All ATC Scholars

Common Core State Standards Initiative. (2010, June 2). *Common core state standards for mathematics*. Washington, DC: Author. Retrieved from http://corestandards.org/assets/CCSSI_Math%20Standards.pdf [bound copy provided]

GeoGebra freeware.

Stein, M. K., Smith, M. S., Henningsen, M. A., & Silver, E. A. (2009). *Implementing standards-based mathematics instruction: A casebook for professional development* (2nd ed.). Reston, VA: National Council of Teachers of Mathematics, and New York: Teachers College Press.

TI-nspire CAS CX teacher bundle (Version 3.2) [Handheld computer with built-in software, and personal computer software] (2012). Dallas, TX: Texas Instruments.

Additional Resources Provided to QUANT Scholars

QUANT institute binder.

Foley, G. D., Butts, T. R., Phelps, S. W., & Showalter, D. A. (2014). Part II: Statistics and Probability. *Advanced quantitative reasoning: Mathematics for the world around us*. Austin, TX: AQR Press.

Franklin, C., Kader, G., Mewborn, D., Moreno, J., Peck, R., Perry, M., & Scheaffer, R. (2007). *Guidelines for assessment and instruction in statistics education (GAISE) report: A pre-K–12 curriculum framework*. Alexandria, VA: American Statistical Association.

Moore, D. S., McCabe, G. P., & Craig, B. A. (2012). *Introduction to the practice of statistics* (7th ed.). New York, NY: W. H. Freeman.

Peck, R., & Starnes, D., with Kranendonk, H., & Morita, J. (2009). *Making sense of statistical studies* [Teacher's module]. Alexandria, VA: American Statistical Association.

Additional Resources Provided to Modspar Scholars

Modspar institute binder.

Consortium for Foundation Mathematics. (2008). *Mathematical models with applications* [Texas edition]. Boston: Pearson Addison-Wesley.

Crisler, N., Simundza, G., Region 4 Educational Service Center, & Consortium for Mathematics and Its Applications Project (COMAP). (2012). *Modeling with mathematics: A fourth year course*. New York, NY: W. H. Freeman.

Foley, G. D., Butts, T. R., Phelps, S. W., & Showalter, D. A. (2014). Part III: Modeling with functions and algebra. *Advanced quantitative reasoning: Mathematics for the world around us*. Austin, TX: AQR Press.

Google Earth freeware; Spherical Easel freeware; Trimble SketchUp freeware.

Resources Available in ATC Library During the Summer Institutes

Barnett, S. (1998). *Discrete mathematics: Numbers and beyond*. Harlow, England: Addison Wesley Longman.

Black, P., Harrison, C., Lee, C., Marshall, B., & Wiliam, D. (2003). *Assessment for learning: Putting it into practice*. Maidenhead, United Kingdom: Open University Press.

Blitzer, R. (2008). *Thinking mathematically* (4th ed.). Upper Saddle River, NJ: Pearson Prentice Hall.

- Blocksma, M. (2002). *Necessary numbers: An everyday guide to sizes, measures, and more*. San Diego, CA: Portable Press.
- Consortium for Mathematics and Its Applications Project (COMAP). (2000). *Mathematics: Modeling our world—ARISE Course 4: Pre-calculus*. Garfunkel, S., Godbold, L., & Pollak, H. (co-PIs); Godbold, L. (Ed.); Crisler, N., Froelich, G., Giordano, F., & Lege, J. (Authors). New York: W. H. Freeman.
- Coxford, A. F., Fey, J. T., Hirsch, C. R., Schoen, H. L., Burrill, G., Hart, E. W., et al. (2003). *Contemporary mathematics in context: A unified approach, Course 4 [Core-Plus Mathematics Project]* (2nd ed.). New York: Glencoe/McGraw-Hill.
- Demana, F., Waits, B. K., Foley, G. D., & Kennedy, D. (2011). *Precalculus: Graphical, numerical, algebraic* (8th ed.). Boston: Pearson Addison-Wesley.
- Dossey, J. A., Otto, A. D., Spence, L. E., & Vanden Eynden, C. (2002). *Discrete mathematics* (4th ed.). Boston: Addison-Wesley.
- Gordon, S. P., Gordon, F. S., Fusaro, B. A., Siegel, M. J., & Tucker, A. C. (1997). *Functioning in the real world: A precalculus experience*. Reading, MA: Addison-Wesley.
- Gordon, S. P., & Gordon, F. S. (2010). *Functions, data and models: An applied approach to college algebra*. Washington, DC: Mathematical Association of America.
- Herbel-Eisenmann, B., & Cirillo, M. (Eds.) (2009). *Promoting purposeful discourse: Teacher research in mathematics classrooms*. Reston, VA: National Council of Teachers of Mathematics.
- Hirst, H. P., & Smith, J. R. (Eds.). (2003). *How do you know? Using math to make decisions* (3rd ed., revised printing). Dubuque, IA: Kendall/Hunt.
- Kenney, M. J., & Hirsch, C. R. (Eds.). (1991). *Discrete mathematics across the curriculum, K–12: 1991 yearbook*. Reston, VA: National Council of Teachers of Mathematics.
- Murdock, J., Kamischke, Ellen, & Kamischke, Eric. (1998). *Advanced algebra through data exploration: A graphing calculator approach*. Berkeley, CA: Key Curriculum Press.
- National Council of Teachers of Mathematics. (2005). *Principles and standards for school mathematics quick reference guide: Table of standards and expectations* (3rd printing). Reston, VA: Author.
- National Council of Teachers of Mathematics. (2007). *Mathematics teaching today: Improving practice, improving student learning* (2nd ed.). T. S. Martin (Ed.). Reston, VA: Author. (Originally published in 1991 as *Professional standards for teaching mathematics*)
- National Council of Teachers of Mathematics. (2009). *Focus in high school mathematics: Reasoning and sense making*. Reston, VA: Author.
- Peressini, A. L., McConnell, J. W., Usiskin, Z., Epp, S., Ahbel, N. P., Witonsky, D., et al. (1998). *Precalculus and discrete mathematics* (2nd ed.) [University of Chicago School Mathematics Project]. Glenview, IL: Scott Foresman Addison Wesley.
- Senk, S. L., et al. (1998). *Functions, statistics, and trigonometry* (2nd ed.) [University of Chicago School Mathematics Project]. Glenview, IL: Scott Foresman Addison Wesley.
- Sevilla, A., & Somers, K. (2007). *Quantitative reasoning: Tools for today's informed citizen*. Emeryville, CA: Key College.
- Souhrada, T. A., & Fong, P. W. (Eds.). (2006a, b). *SIMMS integrated mathematics: A modeling approach using technology, Levels 3 & 4* (3rd ed.). Dubuque, IA: Kendall/Hunt.
- Yoshiwara, K., & Yoshiwara, B. (2007). *Modeling, functions, and graphs: Algebra for college students* (4th ed.). Belmont, CA: Thomson Brooks/Cole.