



Algebraic Mathematical Biology

A NIMBioS Investigative Workshop

July 25-27, 2016

NIMBioS at the Univ. of Tennessee, Knoxville

The use of modern algebraic methods is now in mainstream mathematical biology research, yet this trend has been slow to influence the undergraduate math and biology curricula, where classical difference and differential equation models still dominate. This workshop will bring together a diverse group of faculty from the field of algebraic and discrete mathematical biology to 1) survey existing educational resources in discrete and algebraic mathematical biology; 2) identify topics appropriate for undergraduates not yet featured in the existing literature; 3) identify target courses in the mathematics and biology curricula that would benefit most from featuring those topics; 4) initiate the development of new curricular materials and ultimately publish the materials for those topics; and 5) facilitate the growth of a community of faculty actively involved in creating and using curricular resources for algebraic mathematical biology.

Participation in the workshop is by application only. Individuals with a strong interest in the topic are encouraged to apply, and successful applicants will be notified within two weeks of the application deadline. If needed, financial support for travel, meals, and lodging is available for workshop attendees.

Application deadline: April 25, 2016

For more information about the workshop and a link to the online application form, go to http://www.nimbios.org/workshops/WS_mathbio

The National Institute for Mathematical and Biological Synthesis (NIMBioS) brings together researchers from around the world to collaborate across disciplinary boundaries to investigate solutions to basic and applied problems in the life sciences. NIMBioS is sponsored by the National Science Foundation, through NSF Award #DBI-1300426, with additional support from the University of Tennessee, Knoxville.