

Call for Proposals for the 2019 AMS Short Courses

The AMS Short Course Subcommittee invites submissions of preliminary proposals for Short Courses to be given at the 2019 Joint Mathematics Meetings. Members are also invited to submit names of colleagues who they think would conduct an inspiring short course. A short course consists of a coherent sequence of survey lectures and discussions on a single theme. A Short Course ordinarily extends over a period of two days immediately preceding the Joint Mathematics Meetings held in January. Usually there are about six different lectures, and it is anticipated that the proceedings of the Short Course will be published in the series *Proceedings of Symposia in Applied Mathematics*. A list of past short courses can be reviewed [here](#).

Preliminary proposals may be as short as one page. After reviewing the preliminary proposals, the Subcommittee may ask for more details from some of the proposers. Proposals should be sent via email to Associate Executive Director (aed-mps@ams.org) with a cc to Robin Hagan Aguiar (rha@ams.org). For full consideration for the 2019 Short Courses, proposals should be submitted by **December 18, 2017**.

Background Information on the Short Course

Audience

Each AMS Short Course consists of a coherent sequence of survey lectures and discussions on a single theme of applied mathematics, ordinarily extending over a period of two days. Held immediately preceding the Joint Mathematics Meetings in January, the Short Course lecture series is directed at mathematicians seeking professional development and continuing education.

Each theme is a specific area of applied mathematics or mathematics used in the study of a specific subject or collection of problems in one or more of the physical, biological or social sciences, technology or business.

The mathematical background of the participants in these courses is assumed to be that represented by a sound undergraduate education in mathematics, but ordinarily there is a wide range in the mathematical knowledge and sophistication of the participants.

Guidance for Organizers

Experience with the Short Course series has shown that participants attend for a variety of reasons: one of the most common is intellectual curiosity, apparently reflecting a growing interest in applied topics; another reason is to find new research topics or new teaching material. Each Short Course, whether devoted to a topic selected from a branch of "applicable" mathematics or devoted to an application of wide current interest, is constructed so as to present a coherent sequence of survey lectures designed for non-specialists that lead to an indication of the "state of the art", as well as introduce mathematically challenging aspects of the topic and illustrate the applications of the mathematics involved.

Organizers and speakers are advised that the mathematical background and experience of the participants vary greatly: from novice to specialist, from graduate student (or even undergraduate or high school student) to senior professor, from college (two-or four-year) teacher to researcher.

Lectures should begin at a level as elementary as possible with something everyone can follow, while going to enough technical detail to enable the audience to see the whole topic in perspective and determine whether they wish to pursue the subject further.