

To register for the competition, *return the following form* or *register online* at the MATH Challenge web site.

Registration Form

Faculty Advisor:

Address:

Telephone:

E-Mail:

Teams:

We will have _____ teams participating in year's MATH Challenge.

Fee:

At **\$18 per team**, our total fee is _____.

(Make **check** payable to Alma College)

To pay with **credit card**, call the Alma College Financial Services office at (989) 463-7320.

Please return this form (*and the fee if possible*) no later than **October 24th** to:

Tim Sipka
Dept. of Math & Computer Science
Alma College
Alma, MI 48801

Timothy Sipka
Dept. of Math & C.S.
Alma College
Alma, MI 48801

The 24th Annual Michigan Autumn Take Home Challenge



A team-oriented mathematics competition for undergraduates to be held on

Saturday, November 3, 2018

Dear Colleague,

The MATH Challenge is a team-oriented, 3-hour exam consisting of ten interesting problems dealing with topics and concepts found in the undergraduate mathematics curriculum. As the name implies, teams will take the exam on their home campuses under the supervision of a faculty advisor. In order to insure a reasonable degree of security, all teams will take the exam on the same day and time. This year's exam will be given on the morning of **Saturday, November 3rd** between the hours of 9:30 a.m. and 12:30 p.m. (EST).

Faculty advisors at participating institutions will play a key role. They will be sent copies of the exam (and answer key) several days in advance and will be responsible for their security. In addition, they will be responsible for making the necessary arrangements for rooms on the day of the exam, distributing and collecting the exams, distributing answers after the exam, and promptly sending the completed exams to the author/grader.

Your institution may enter as many teams as you wish for a fee of **\$18 per team**. These funds will be used to cover the cost of writing/grading the exam and for the plaques that will be awarded to the top three teams.

I hope your institution will participate in this year's **MATH Challenge**. To do so, you may either complete and return the attached registration form or register online by visiting the **MATH Challenge** web site at

alma.edu/mathchallenge/.

Registration forms must be received by **Wednesday, October 24th**.

Sincerely,

Tim Sipka
Alma College
(989) 463-7234
sipka@alma.edu

You may send your check (registration fee) at a later date. It would be nice for it to arrive near the date of the exam.

Rules of the Competition

1. Eligibility

The competition is open to all full-time or part-time undergraduate students who are currently enrolled at your institution.

2. Teams

A team must consist of 2 or 3 students.

3. Administering the Exam

Several days in advance of the competition, faculty advisors will receive an envelope containing:

- sealed test packets for each team entered in the competition;
- a sealed envelope containing one copy of the test for the faculty advisor;
- a second sealed envelope containing a single copy of the solutions to the test; and
- an addressed envelope for returning the solutions to the grader.

On the day of the exam, faculty advisors are expected to begin the exam promptly at 9:30 a.m. and collect it at 12:30 p.m. In addition, advisors are expected to provide each team with an adequate supply of 8.5×11 unlined paper.

4. Supervising the Exam

Faculty advisors will arrange to have each team work in a separate room. While faculty advisors are not required to monitor the students' work continuously (like supervisors for the Putnam), they are expected to "be around" during the entire three-hour period.

5. Returning the Exam

Each team will receive a separate envelope in which to seal its solutions at the end of the exam. The faculty advisor will collect these envelopes and mail them to the exam's author on the Monday following the exam.

6. External Aids

Participants are not permitted to bring any books, notes, slide rules, rulers, calculators, computers, etc., into their team's exam room. They may bring sharpened pencils (or pens) and erasers.

Past Exams

Copies of all past exams can be found at the **MATH Challenge** web site:

alma.edu/mathchallenge/

Top Teams in the 2017 Competition

- 1st Kalamazoo College
- 2nd Colgate University
- 3rd DePauw University
- 4th Lawrence Technological Univ.
- 5th Wheaton College (IL)
- 6th Taylor University
Wabash College
- 8th Univ. of Michigan-Flint 1
- 9th Hillsdale College
- 10th Univ. of Michigan-Flint 2

Awards

Plaques will be awarded to the top three teams. Each plaque will list the names of the individual team members and faculty advisor. Plaques for all first-place teams from previous competitions can be seen at the **MATH Challenge** web site.