

InMATYC Fall Meeting  
September 20, 2024  
Ivy Tech Community College – Batesville  
Room BATMA 1320

In-person attendees:

Matthew Kennedy  
Luanne Benson-Lender  
Rebecca Wulf  
Ed Gallo  
Raymona Gallo  
Gordon Emon  
Christine Langer  
Kinga Oliver  
Victoria Kruglov  
Mike Eusebio

Virtual attendees:

A. Gwinn Royal  
Alex Cibotarica  
Tamara Miller  
Brandon Bartley

Time (all ET)	Activity
9:00am – 9:20am	Welcome and Announcements (Matthew Kennedy) <ul style="list-style-type: none"><li>• Light refreshments</li><li>• <a href="#">AMATYC Midwest VP update</a></li><li>• <a href="#">MAA MathFest 2024</a> (August 7th-10th, 2024)</li><li>• <a href="#">50th AMATYC Annual Conference</a> (Atlanta, GA) - Nov. 14-17, 2024</li></ul>
9:20am – 10:20am	<b>Presentation 1: Using DESMOS to Verify Algebraic and Trigonometric Identities</b> Matthew Kennedy (Ivy Tech Central Indiana) Abstract 1: Students often have difficulties memorizing important and useful algebraic and trigonometric identities in the symbolic sense. Using DESMOS, we can provide students with a visual representation of a variety of identities, and show that the identities hold true for various inputs.
10:20am – 10:30am	Break
10:30am – 11:30am	<b>Presentation 2: Results of Research on Third Attempt Students</b> Dr. Rebecca Wulf (Ivy Tech Lafayette)

	Abstract 2: Presentation of the results of a mixed methods study on Ivy Tech students taking a course for the third time. This study included quantitative results based on courses, student demographics, and Pell eligibility. A qualitative approach was used to analyze third-attempt appeal forms to determine common obstacles and strategies for success.
11:30pm – 12:15pm	Lunch (on our own)
12:15pm – 1:15pm	<p><b>Business Meeting</b></p> <p>Secretary Report (Luanne Benson-Lender) - Link to last meeting's minutes: <a href="https://docs.google.com/document/d/e/2PACX-1vQT8uGN2IIsPq-lyhXnDFi37kzw4mDispcVUPFEPIPPxWWQ1tjXNyWGbkosLiYw8s2YHBejT50pK_gt/pub">https://docs.google.com/document/d/e/2PACX-1vQT8uGN2IIsPq-lyhXnDFi37kzw4mDispcVUPFEPIPPxWWQ1tjXNyWGbkosLiYw8s2YHBejT50pK_gt/pub</a></p> <p>Treasurer Report (A. Gwinn Royal)</p> <p>Scholarship Committee (Matthew Kennedy)</p> <p>Website Committee (Luanne Benson-Lender)</p> <p>Nomination Committee (Ed Gallo)</p> <p>Election of President and Vice President (Nov. 1, 2024 - Oct. 31, 2026)</p> <p>Meeting dates/locations for upcoming meetings: Spring 2025, Fall 2025</p> <p>Celebrations/Announcements</p> <p>Closing Announcements and Door Prizes</p> <ul style="list-style-type: none"> <li>● Upcoming elections: 3 Board Members (2025-2028)</li> <li>● Door Prizes for participants</li> </ul>
1:15pm – 2:00pm	Board of Directors Meeting

### Welcome and Announcements

- Matthew represented InMATYC as a volunteer at the MAA MathFest in Indianapolis

Celebrations:

- Matthew's daughter placed 1st in her level at NGA Gymnastics
- Luanne is now Assistant Professor at UIndy
- We have a better in-person turnout today than most of our recent meetings, with some new faces!

### Using DESMOS to Verify Algebraic and Trigonometric Identities (Matthew Kennedy)

Matthew spoke about his experience with students' discomfort in working with identities in Calculus classes. He began by showing an algebraic example of squaring a binomial, along with common student mistakes. He then moved to working with Desmos to show that certain identities are true for any values

in a visual way, without getting bogged down in the algebra. This desmos technique is to be included in a professional development for adjuncts on Matthew's campus.

### Results of Research on Third Attempt Students (Dr. Rebecca Wulf)

Dr. Wulf completed her EdD from Ferris State University in March this year. This presentation is a product of that degree. Ivy Tech Third Attempt Policy ASOM 3.02: Students may repeat one time, must appeal with the VCAA for a third attempt. While Federal financial aid is unlimited in theory, you may not exceed 150% of the credit hours required for your degree. Research questions: how do third attempt students do, which courses are repeated more, what are their characteristics, what are common obstacles, and what resources are most helpful? Data: 5 years, 12930 third attempts, 10431 students; 103 student appeal forms for Lafayette students. 62.8% success rate on 3rd attempts overall – 48.5% for Quantitative Reasoning and College Algebra, 51.5% for Finite Math. MATH made up 21% of 3rd attempts. Some courses with higher success rates (A&P) are skewed by successful students retaking to raise their grade for competitive program (Nursing) applications. Age (traditional vs. non-traditional) was the best predictor of success on the 3rd attempt, with non-traditional students performing 47% better. Also looked at student forms to see which obstacles affected success rates, with varied results. Recommendations: continue the appeal process, raise awareness among faculty and advisors, interventions at the second attempt, statute of limitations as a possibility.

Business meeting is moved to 12:30 to allow time for lunch.

### AMATYC Announcements

- 50th Annual AMATYC Conference is this November 14-17th in Atlanta, Georgia – Early Bird Registration is due by October 7th if purchased online
- Student Math League Development position open until filled
- Interested in running a Student Math League? See AMATYC site for details
- Institutional memberships available – includes Student Math League and Student Research League, plus one registration for the conference

### Business Meeting

Secretary: (Luanne) Minutes were presented and approved unanimously.

Treasurer: (Gwinn) Current Checking \$238.50, Savings \$1109.77, do not include pending Cheddar Up account or dues today. Members can pay online and can also donate to the scholarship fund, which will go to the savings account.

Scholarship: (Matthew) Matthew is taking over the committee from Brian Bright. Our next scholarship will be awarded at the Spring 2025 Meeting. Please promote it to your Ivy Tech or Vincennes students.

Website: (Luanne) We are working on modernizing our website – one idea to keep announcements more up-to-date is to keep an embedded Google Doc that can be updated by any member of the leadership. Maybe explore getting student help from a Web Design program, or utilize Google Sites.

Nominations (Ed): Today we are due for President and Vice President elections, effective November 1 2024. The committee nominates for President: Mike Eusebio, Vice-President: A. Gwinn Royal. Both members accepted the nominations. Ren moves to close the nominations and accept the elections by acclamation. Motion was seconded and the vote was unanimously approved.

With Gwinn's election to Vice-President, the Treasurer position needs to be filled, Ed nominates Matthew to fill the position. By the by-laws, the President appoints the replacement when a member cannot finish their term. Ren moves to close the nominations and accept the elections by acclamation. Motion was seconded and the vote was unanimously approved.

We need 3 more board members to be elected in the Spring – if you want to get involved, please contact current leadership members.

Future Meetings:

Spring 2025: Ivy Tech – Lafayette on Friday, April 11 2025

Fall 2025: Ivy Tech – Columbus on Friday, September 19 2025 (tentative)

Celebrations:

- See: other celebrations at the beginning of the minutes
- Rebecca Wulf introduced Gordon Emon as a new full-time faculty member (long-time adjunct) at Lafayette. Rebecca is going with two new faculty members to AMATYC in November.

Business Meeting adjourned at 1:48 PM

Board Meeting convened at 2:04 PM

Ed proposal: Schedule for emails to membership.

Meeting + 1 week (President)

- Had a meeting
- Name of presentations
- Next meeting

Meeting + 2 months (Secretary)

- Minutes of last meeting
- Next meeting
- Call for presenters
- Scholarship application

Meeting + 4 months (President)

- Upcoming meeting
- Call for presenters

Meeting + 5 months (President)  
-Agenda for upcoming meeting  
-Meeting details

Ren: we could investigate using schedule send to get these lined up more easily.

Updating committee memberships:

- Nomination Committee: Matthew Kennedy (Co-Chair), Ed Gallo (Co-Chair), remove Ben Aschenbrenner
- Scholarship Committee: add Matthew Kennedy (Chair), remove Ed Gallo and Brian Bright, keep other members
- Website Committee: add Luanne Benson-Lender (Chair), remove Ben Aschenbrenner and Matthew Kennedy

Matthew: The new Indiana diploma proposals are of concern. This is something that we may want to look at as a group, because it will have ramifications for our incoming students.

Mike: FYI, some members (including Mike and Kinga) received scam emails posing as Matthew asking them to purchase gift cards today.

Ed: We could add committee membership as a Business Meeting agenda item for future meetings – reviewing the membership and recruiting new members.

Group discussion: Attendance is low. Ideas: reduce number of meetings, move the meeting day to something other than a Friday. OhioMATYC used to do Saturday meetings with Friday night arrival/stayover, but has moved to Friday-only. Ultimately no changes were decided upon, but this will be an ongoing discussion.