

American Mathematical Association of Two-Year Colleges

PRESIDENT George Hurlburt Corning Community College

PRESIDENT-ELECT Eddie Tchertchian Los Angeles Pierce College

PAST PRESIDENT Laura Watkins Glendale Community College

> SECRETARY Jonathan Weisbrod Rowan College at Burlington County

> > TREASURER Kyle Kundomal Collin College

NORTHEAST VP AJ Stachelek Hostos Community College

MID-ATLANTIC VP Dennis Ebersole Northampton Community College (Retired)

> SOUTHEAST VP Alvina J. Atkinson Georgia Gwinnett College

MIDWEST VP Brandon Bartley Jefferson Community and Technical College

CENTRAL VP Dale Johanson Northeast Community College

SOUTHWEST VP Jennifer Travis Lone Star College-North Harris

NORTHWEST VP Jessica Bernards Portland Community College

> WEST VP Lindsey Gerber Utah Valley University

EXECUTIVE DIRECTOR Anne Dudley Glendale Community College (Emeritus)

> Southwest Tennessee Community College 5983 Macon Cove Memphis, TN 38134 Phone: 901.333.5643 Fax: 901.333.5651 amatyc@amatyc.org www.amatyc.org

October 18, 2024

Dear AMATYC Delegate.

The 2024 Delegate Assembly will be held on **Saturday December 14th, 2024, 3:00 - 5:00 PM EST, 2:00pm to 4:00pm CST, 1:00pm to 3:00pm MST, 12:00 pm to 2:00pm PST** virtually using the Zoom platform.

Attached are the 2024 Delegate Assembly Agenda and other materials for your careful review prior to our meeting. Please plan to arrive early to the meeting, check in with your regional vice president, and **be in Zoom 30 minutes before the scheduled start time**. You will access a Regional Zoom Link to check in, and then access a different Zoom link for the Delegate Assembly. The Delegate Assembly will start on the hour, so please check into your Zoom room at least ten minutes prior to the start of the Delegate Assembly. Be sure to have access to the attached packet of information during the Delegate Assembly.

This year the main items of business are reviewing reports from the President, the Treasurer, the Foundation, an update to the by-laws, and an update to the AMATYC IMPACT document.

Substitutes: According to the Bylaws, alternate delegates may be named by the regional vice president as the delegate replacing an affiliate or state/province delegate at the Delegate Assembly by notifying the AMATYC Secretary in writing and providing appropriate credentials in writing no later than 6 pm of the day prior to the start of the Delegate Assembly.

Motions: If you wish to submit a motion for consideration during the Delegate Assembly business meeting, please submit at this <u>Smartsheet</u>.

Items for Discussion: As in previous years, the Delegate Assembly agenda includes open discussion at the end of the meeting. To the extent that time permits, this is an opportunity for delegates to express comments about issues related to AMATYC's mission.

Thank you very much for your service to AMATYC in this important role. I am looking forward to seeing you on Zoom.

Respectfully,

George Hurlburt President



2024 DELEGATE ASSEMBLY AGENDA THE AMERICAN MATHEMATICAL ASSOCIATION OF TWO-YEAR COLLEGES Virtual Saturday, December 14, 2024 3:00 pm EST

- I. Call to Order 3:00 p.m. EST
- II. Welcome and Introductions Parliamentarian and Timekeeper 2024-2025 Executive Board Members
- III. Announcement of Quorum

Jonathan Weisbrod

- IV. Motion to Approve the Rules of Conduct
- V. Motion to Approve the Agenda
- VI. 2023 Delegate Assembly Minutes (Informational item only)
- VII. Motion to Approve the 2024 Minutes Review Committee

VIII. Reports

- A. President
- B. Treasurer
- C. AMATYC Foundation
- D. Strategic Planning
- E. Conference Site Selection

IX. Old Business

- A. None
- X. New Business
 - A. Motion: By-law change, virtual Delegate Assembly
 - B. Motion: Adding a chapter on Equity to Impact
- XI. Items for Discussion Open Microphone Delegates are invited to bring forward for discussion or comments issues that are related to AMATYC's mission and goals.
- XII. Announcements

George Hurlburt Kyle Kundomal Laura Watkins Eddie Tchertchian Eddie Tchertchian

- A. Introduction of AMATYC Executive Director
- B. New website / membership database
- C. Position Statement Updated: Distance Education in College Mathematics in the First Two Years
- D. Potential Name Change

XIII. Adjournment

BYLAWS OF THE AMERICAN MATHEMATICAL ASSOCIATION OF TWO-YEAR COLLEGES (AMATYC) Ratified July 2010 Last Updated November 2021

Article I Name

The name of the association shall be the American Mathematical Association of Two-Year Colleges, Incorporated (AMATYC).

Article II Objectives

- Section 1 The American Mathematical Association of Two-Year Colleges, Incorporated is a non-profit, educational association.
- Section 2 The objectives of AMATYC are the following:
 - A. Encourage the development of effective mathematics programs
 - B. Provide a national forum for the exchange of ideas
 - C. Develop and/or improve the mathematics education and mathematics related experiences of students in two-year colleges
 - D. Coordinate activities of affiliated organizations on the national level
 - E. Promote the professional welfare and development of its members.

Article III Membership

Section 1 Membership Categories

Members must complete the proper forms and pay the established dues. Membership in AMATYC shall be restricted to the following:

- A. Regular membership: individual, full-voting members, with one or several subcategories determined by the Executive Board, with dues and levels of benefits determined by the Executive Board.
- B. Associate membership: individual, non-voting members, with one or several subcategories determined by the Executive Board, with dues and levels of benefits determined by the Executive Board. Associate members must not also be a full- or part-time teacher, and must be endorsed by a regular member.
- C. Institutional membership A class of non-individual, non-voting memberships

associated with any college, university, learning center, publisher, manufacturer, or similar entity that supports the purposes of the association. Dues and levels of benefits determined by the Executive Board.

Section 2 Membership Privileges

- A. A regular member has the right to vote, hold elected office, be appointed to leadership positions, nominate candidates for office, serve on committees as a voting member, and be appointed as a delegate in the Delegate Assembly.
- B. Associate members have the right to nominate candidates for office and serve on committees, but do not have the right to vote, hold elected office, be appointed to leadership positions, or be appointed as a delegate in the Delegate Assembly.
- C. Individuals who are eligible for an associate membership may choose to complete the proper forms and pay the established dues to become a regular member to obtain all the privileges of a regular member.
- D. The representative of an institutional member has the right to nominate candidates for office, but does not have the right to vote, hold elected office, be appointed to leadership positions, serve on committees as a voting member, or be appointed as a delegate in the Delegate Assembly, unless that individual is also a regular member of the association.

Section 3 Membership Year

The membership year shall consist of twelve months. For new members, the membership beginning date shall be the day the dues are paid.

Section 4 Dues

- A. Annual membership dues are paid by all members, except lifetime members.
- B. Annual regular AMATYC membership dues are set every two years by applying the Consumer Price Index Urban Consumers CPI-U for the last two consecutive years that begin with an even-numbered year to the current dues and rounding up to the nearest whole dollar. This adjusted rate is set at the Spring Executive Board Meeting in odd- numbered years, with the change taking place on July 1 of the following even-numbered year.

C. In the event that there is a need for a change other than the calculated rate, as determined in Article III.4.B., the new rate must be brought to the Delegate Assembly prior to the change taking effect for approval.

Article IV Affiliated Organizations

Section 1 Any organization interested in affiliating with AMATYC must recognize AMATYC as a prime national organization concerned with the first two years of college mathematics instruction. This is done by voting for affiliation with AMATYC. Applications for affiliation must be approved by the AMATYC Executive Board.

Section 2 An affiliated organization has the following responsibilities:

- A. The membership lists of the organization shall be forwarded to the appropriate AMATYC Regional Vice-President by June 30 in even-numbered years.
- B. Membership in AMATYC should be encouraged for all the affiliate's members.
- C. Each affiliate organization will appoint AMATYC members to serve as affiliate delegates to the Delegate Assembly as discussed in Article VII.

Article V Elected Officers

- Section 1 The elected officers of AMATYC shall be called the Executive Board and shall be the national officers: a President, President-Elect, Immediate Past President, Treasurer, and Secretary, and the regional officers, a Northeast Regional Vice-President, Mid-Atlantic Regional Vice-President, Southeast Regional Vice-President, Midwest Regional Vice- President, Central Regional Vice-President, Southwest Regional Vice-President, Northwest Regional Vice-President, and West Regional Vice-President.
- Section 2 Only regular members are eligible to hold elected office.

Section 3 Terms of Office

- A. The term of office for all elected officers, except for the Treasurer, is two years; beginning on January 1 in even-numbered years and ending on December 31 in the next odd-numbered year. The term limit for all officers, except for the President-Elect, President, Immediate Past President, and Treasurer, is three full successive elected terms in the same office.
- B. The term limit for the President-Elect, President, and Immediate Past President is one full elected term in the same office. The President-Elect automatically succeeds the President at the end of the President's term or when the President leaves office permanently. The President automatically succeeds the Immediate Past President at the end of the President's term. The Immediate Past President may not be elected as President- Elect.

C. The term of the office for the Treasurer is four years, beginning on January 1 in even-numbered years and ending on December 31 in the second subsequent odd-numbered year. The term limit for the Treasurer is two full successive elected terms in that office.

Section 4 Duties of elected officers

All elected officers shall promote and coordinate the activities of the association, perform all duties according to policy, and perform all other duties that regularly pertain to the office. Specific duties of each office are as follows:

A. President:

- 1. Prepare the agenda for all association, Delegate Assembly, and Executive Board meetings.
- 2. Preside at all general meetings of the association, the Delegate Assembly, and the Executive Board.
- 3. Act as ex-officio member of all committees except the Nominating Committee.
- 4. Nominate, for approval by the Executive Board, the chairperson of all committees, except the Nominating Committee, Strategic Planning Committee, and Organizational Assessment Committee.
- 5. Appoint the chairs of ad hoc committees and task forces.
- 6. Appoint an acting chairperson of a committee when a vacancy occurs.
- 7. Appoint Special Appointees to perform duties as designated with approval of the Executive Board.
- 8. Meet with the Executive Directors and/or Presidents of other organizations who share similar concerns and interests to discuss items of mutual benefit and to establish a working relationship with them.
- B. President-Elect
 - 1. Act as president in the absence of the President.
 - 2. Serve as the chairperson of the Strategic Planning Committee and the Organizational Assessment Committee.
 - 3. Maintain a policy and procedures manual in conjunction with the Secretary and the AMATYC Office.
- C. Immediate Past President
 - 1. Chair the Nominating Committee.
 - 2. Administer the election of officers.

4

D. Secretary

- 1. Keep an accurate, permanent record of the proceedings of meetings of the association, Delegate Assembly, and Executive Board.
- 2. Maintain updated lists of delegates and affiliate presidents.
- 3. Furnish agendas and minutes of all meetings to the appropriate people and ensure that the official minutes of the organization are securely archived.
- 4. Assist the President-Elect in maintaining a policy and procedures manual.

E. Treasurer

- 1. Ensure that all financial records, funds, receipts, and disbursements of the association are accurately maintained.
- 2. Present a written financial report at each regular business meeting and each Executive Board meeting.
- 3. Certify the size of the membership by region and category.
- 4. Prepare an annual organizational budget and present it to the Executive Board for approval at the fall meeting.
- 5. Obtain approval of the Executive Board or designee for expenditures that exceed budgeted amounts.
- 6. The outgoing Treasurer will complete the financial responsibilities pertaining to the conference at the end of the term of office.
- F. Regional Vice-Presidents
 - 1. Serve as the liaison between AMATYC and its affiliated organizations.
 - 2. Appoint state/province delegates per Article VII.
 - 3. Serve as a member of the membership committee. One Regional Vice-President shall serve as chair.
 - 4. Recruit and retain members within their regions.

Section 5 Elections

The Executive Board shall conduct elections for officers in each odd-numbered year. Each regular member as of June 30 of that year shall be eligible to vote. Elections shall be by secret ballot. Announcement of the dates, format, and candidates of the election shall be made in writing or electronically to the membership at least 30 days prior to the beginning of the vote. Candidates who receive a plurality of the votes for a particular office shall be elected. If the number of votes for two candidates for the same office are tied, then a random

process shall be used to determine the winner.

Section 6 Vacancies

In the event that an officer other than the President, President-Elect, or Treasurer leaves office before the expiration of the regular term, the president, with the approval of the Executive Board, shall appoint a replacement for the remainder of the term. A vacancy in the office of President-Elect shall be filled by a special election following procedures established by the Executive Board. In the event that the Treasurer leaves office before the expiration of the regular term, the President, with the approval of the Executive Board, shall appoint a replacement until the next regularly scheduled election, regardless of whether this election falls on the four-year cycle for election of a Treasurer. The newly elected Treasurer would serve a full four-year term and this four-year term will form the basis for future Treasurer terms and elections.

Article VI Executive Board

- Section 1 The elected officers shall serve as the Executive Board and are responsible for conducting the affairs of the association.
- Section 2 Duties of the Executive Board
 - A. Approve the chairperson of each committee, except the Nominating Committee, Strategic Planning Committee, Organizational Assessment Committee, ad hoc committees, and task forces.
 - B. Recommend dues changes to the Delegate Assembly per Article III.4.
 - C. Recommend bylaw changes to the Delegate Assembly.
 - D. Select cities and dates for the annual conference.
 - E. Approve the annual budget.
 - F. Appoint special committees as needed to carry out the purposes of the association.
 - G. Make special appointments for persons to perform duties as designated.
 - H. Authorize a designated officer or officers, agent or agents of AMATYC, in addition to the officers so authorized by these bylaws, to implement and oversee, on behalf of AMATYC, a project, program or activity conducted jointly by AMATYC and one or more outside entities, to be called a partnership. This partnership is approved by the AMATYC Executive Board. Such authority must be in writing and be confined to specific instances as outlined in a partnership agreement which is approved by the Executive Board and signed by AMATYC and the partnership entity.
 - I. Perform all other duties according to policy.
 - J. Perform all other duties that are necessary for the functioning of the association.

- Section 3 A majority of the members of the Executive Board shall constitute a quorum to enact the business of AMATYC. This majority must include at least two of the national officers.
- Section 4 Regular meetings of the Executive Board may be called by the President or seven members of the Executive Board two of which must be national officers. Written or electronic notification of all regular meetings must be given to all Executive Board members at least 30 days prior to the start of the meeting. Announcements of regular Executive Board meetings must be published on the AMATYC website at least two weeks prior to the beginning of the meeting. At least two regular meetings must be held annually, one during the spring and a second during the fall.

Section 5 Action between Regular Meetings

- A. In circumstances as determined by the President or seven members of the Executive Board, at least two of which are national officers, business may be conducted between regular meetings of the Executive Board by means of mail, fax, email or conference calls. The same quorum that applies to regular meetings is required at these meetings to conduct the business of AMATYC.
- B. All actions resulting from a mail, fax, email or conference call vote shall be documented, distributed, and archived by means of a report from the Secretary in the Executive Board minutes of the regular meeting that takes place immediately following the action.
- C. Written or electronic notification of all proposed actions presented between regular meetings must be given to all Executive Board members at least 72 hours before discussion or voting occurs.

Article VII Delegate Assembly

- Section 1 The association shall have an annual business meeting (Delegate Assembly) in conjunction with its annual conference. Notice of the Delegate Assembly meeting shall be publicized in writing or electronically at least one month in advance.
- Section 2 The Delegate Assembly shall be composed of delegates who are regular members of AMATYC as follows:
 - A. State/Province Delegates
 - 1. There shall be two state/province delegates from each state and province, appointed for a term of two years by the appropriate regional vice president. States and provinces with more than 50 regular individual members of AMATYC, are permitted one additional state/province delegate for each 50 regular individual members of AMATYC or fraction thereof above 50, determined by each member's preferred mailing address. The count of regular individual members of AMATYC will be done on June 30 of even-numbered years.

- Terms of state/province delegates shall commence on July 1, or date of appointment, whichever is later, and terminate on June 30, in odd-numbered years.
- 3. An alternate delegate from the same state/province may be appointed to serve as proxy in place of a state/province delegate who is unable to attend the Delegate Assembly.

B. Affiliate Delegates

- 1. Each affiliate president, who is also a regular AMATYC member, in office at the time of the Delegate Assembly is a delegate to the Delegate Assembly to represent their affiliate organization. A proxy cannot replace an affiliate president delegate.
- 2. Each affiliate organization may appoint one additional affiliate delegate. Term of appointment will be determined by the affiliate.
- 3. An alternate delegate from the same affiliate may be appointed to serve as proxy in place of an affiliate delegate who is unable to attend the Delegate Assembly.
- C. Each Executive Board officer is a delegate.
- D. Each AMATYC past president is a delegate.
- E. Each AMATYC academic committee chair is a delegate.
- F. Additional delegates to represent countries not specified in Section XI may be appointed by the Executive Board.
- G. No delegate at the Delegate Assembly is entitled to more than one vote.
- H. Regional Vice-Presidents shall submit a list of affiliate and state/province delegates to the AMATYC Secretary no later than thirty (30) days prior to the start of the Delegate Assembly.
- I. Alternate Delegates may be named by the Regional Vice-President as the delegate replacing an affiliate or state/province delegate at the Delegate Assembly, by notifying the AMATYC Secretary in writing and providing appropriate credentials in writing no later than 6 pm of the day prior to the start of the Delegate Assembly.

Section 3 The Delegate Assembly's responsibilities are to:

- A. Vote on all dues changes as submitted by the Executive Board, in accordance with Article III.4.C.
- B. Vote on bylaw changes submitted to the Delegate Assembly.
- C. Present written recommendations to the Executive Board to be considered at the following Executive Board meeting.

D. Approve position statements as presented by the Executive Board per Article IX.

Section 4 Each state/province delegate shall perform the following duties:

- A. Represent that delegate's state/province at the Delegate Assembly meeting at the annual conference.
- B. Keep the Regional Vice-President abreast of the activities and concerns of members from the delegate's state.
- C. Assist the Regional Vice-President in promoting membership and activities for AMATYC in the state/province.
- D. Perform all duties according to policy.

Section 5 Each affiliate delegate shall perform the following duties:

- A. Represent the affiliate organization at the Delegate Assembly meeting at the annual conference.
- B. Keep the Regional Vice-President abreast of the activities and concerns of members from the delegate's affiliate.
- C. Assist the Regional Vice-President in promoting membership and activities for AMATYC at the affiliate meetings.
- D. Perform all duties according to policy.
- Section 6 The number of delegates necessary for a quorum in the Delegate Assembly shall be twenty-five (25) percent of the number of delegates identified in Section 2 of this Article.

Article VIII Committees

Section 1 Types of committees

A. Committees fall into three general categories: Administrative Committees, Academic Committees, and Ad Hoc Committees and Task Forces. Administrative and academic committees are standing committees.

B. All members of association committees must be AMATYC members. Non-AMATYC members may participate in academic committee work in a nonvoting capacity.

Section 2 Administrative Committees

A. Purpose

Administrative committees support the general functioning of the association.

B. Established administrative committees

The following administrative committees are established by these bylaws.

- 1. Nominating Committee
- 2. Membership Committee
- 3. Strategic Planning Committee
- 4. Finance Committee
- 5. Foundation Board
- 6. Organizational Assessment Committee
- 7. Professional Development Committee
- C. Objectives of the established administrative committees

The general objectives of each of the committees in part B are the following:

- 1. The Nominating Committee shall establish election procedures and, consistent with policy and Executive Board direction, recommend a slate of nominees for Executive Board approval.
- 2. The Membership Committee shall develop and implement strategies to solicit new members and retain existing members.
- 3. The Strategic Planning Committee shall develop and publish the AMATYC Strategic Plan.
- 4. The Finance Committee oversees the budget development and serves in an advisory capacity to the Treasurer and Executive Board.
- 5. The Foundation Board shall raise and disburse funds to support the mission of AMATYC.
- 6. The Organizational Assessment Committee shall coordinate the planning and implementation of assessment of AMATYC programs and activities.

- 7. The Professional Development Committee shall monitor, coordinate, and evaluate AMATYC's professional development efforts in order to provide the membership with high quality opportunities and a wide breadth of activities.
- D. Other Administrative Committees

Other administrative committees may be created and discharged as needed by the Executive Board to support the general functioning of the association.

Section 3 Academic Committees

A. Purpose

Academic committees support the general professional purposes and mission of the association, as stated in Article II and in the association's mission statement.

B. Establishment of academic committees

Academic committees are established and discharged by the Executive Board. Their designations and specific purposes will change as the needs of the association change. Each academic committee shall have a chair, nominated by the President and approved by the Executive Board.

C. Duties of an Academic Committee Chairperson

The chairperson of each academic committee shall perform the following duties:

- 1. Chair the meetings of the academic committee.
- 2. Coordinate the activities of the academic committee.
- 3. Prepare the annual budget of the academic committee and submit it to the Treasurer according to the established schedule.
- 4. Prepare reports of the academic committee's activities and submit them to the President according to the established schedule.
- 5. Perform all duties according to policy.
- 6. Perform all other duties necessary for the academic committee to function and accomplish its goals.

Section 4 Ad Hoc Committees and Task Forces

A. Establishment

Ad hoc committees and task forces may be approved and formed by the Executive Board and/or Delegate Assembly when deemed necessary by those entities. B. Purpose and duration

The purpose of ad hoc committees and task forces shall be determined when they are established. A termination date shall be designated at the time of establishment.

Article IX Position Statements

Section 1 Purpose of Position Statements

Position statements represent a declaration by the organization on issues of interest to two- year college mathematics educators, and may be initiated by an academic committee, an affiliate organization, or an individual AMATYC member.

Section 2 Process for Development of Position Statements

The process for development of a position statement must conform to the following guidelines.

- A. A proposal for a position statement must be referred to, or begin with, an appropriate academic committee or task force created by the Executive Board. That committee or task force chooses to pursue or not to pursue the statement. The committee or task force is responsible for development of a proposed position statement.
- B. A schedule for the process of review of proposed position statements by committees, Executive Board, and Delegate Assembly, shall be established by the Executive Board. This schedule must provide timely notice to all AMATYC members of the proposed statement.
- C. The chairperson of an academic committee or task force shall submit the draft position statement to the Executive Board for its review and approval.
- D. If endorsed by the Executive Board the proposed position statement shall be submitted to the Delegate Assembly for review and approval.
- E. In the absence of Executive Board endorsement, the Delegate Assembly may vote to review a proposed position statement by a vote of 2/3 of the delegates at the Delegate Assembly, provided that timely notice was provided to all AMATYC members.
- F. If approved by the Delegate Assembly the proposal becomes an AMATYC position statement.

Article X Removal From Office

Section 1 Executive Board members may be removed from office by a 3/4 vote of the Executive Board, with or without cause, if the action is deemed to be in the

best interest of the association.

- Section 2 Persons appointed to positions within the association may be removed from those positions by a 2/3 vote of the Executive Board.
- Section 3 The affirmative vote of the Executive Board for removal of a person from an appointed or elected position is an authorization for the President to take the steps necessary for that removal.

Article XI AMATYC Regions

- Section 1 The AMATYC organizational membership shall be divided into the regions as follows:
 - Region 1 Northeast:

Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, Vermont; New Brunswick, Newfoundland, Nova Scotia, Ontario, Prince Edward Island, Quebec

Region 2 – Mid-Atlantic:

Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, Virginia, West Virginia

- Region 3 Southeast: Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee; Puerto Rico, Virgin Islands and other Caribbean Islands
- Region 4 Midwest: Illinois, Indiana, Kentucky, Michigan, Ohio, Wisconsin
- Region 5 Central:

Colorado, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Manitoba, Saskatchewan

- Region 6 Southwest: Arizona, Arkansas, New Mexico, Oklahoma, Texas; Mexico
- Region 7 Northwest:

Alaska, Idaho, Montana, Oregon, Washington, Wyoming; Alberta, British Columbia, Northwest Territories, Nunavut, Yukon Territory, other International Locations

- Region 8 West: California, Hawaii, Nevada, Utah; Pacific Islands
- Section 2 A member's region is determined by the location of the individual's primary professional contributions related to AMATYC's objectives (Article II).

Article XII Parliamentary Authority

The rules contained in the current edition of Robert's Rules of Order, Newly Revised shall govern AMATYC in all cases in which they are applicable and in which they are not inconsistent with these bylaws.

Article XIII Amendment

These bylaws may be amended by the delegates at the Annual Delegate Assembly by a two- thirds (2/3) vote of those delegates voting, provided that written or electronic notification of the proposed text changes and the clear purpose of the amendment has been sent to all delegates at least thirty (30) days prior to the Delegate Assembly and a hearing on the proposed changes is convened no sooner than ten (10) days after this notification and at least a day before the beginning of the Delegate Assembly. Proposed amendments to these bylaws may be presented to the Executive Board by any member, and shall be processed by the Executive Board, for approval by the Delegate Assembly.

Article XIV Dissolution

In the event of dissolution, the assets and property of the corporation remaining after payment of expenses and the satisfaction of all liabilities shall be distributed as determined by the Executive Board or as may be determined by a court of competent jurisdiction upon application of the Executive Board, for the non-profit purposes of the corporation and/or to such charitable, literary, and educational organizations as shall qualify under Section 501c3 of the Internal Revenue Code of 1954, as amended. Any of such assets not so distributed shall be disposed of for such purposes as directed by a Justice of the Supreme Court of the State of New York or such other court having jurisdiction over the corporation.

- Approved at the Delegate Assembly, November 15, 2014
- Article VII Delegate Assembly revised and approved at Delegate Assembly November 16, 2019
- Article III Membership and XIII Amendment revised and approved at Delegate Assembly November 6, 2021

Duties of AMATYC Delegates

Responsibilities of the Delegate Assembly

- 1. To vote on all dues changes as submitted by the Executive Board.
- 2. To vote on constitution and by-law changes approved by the Executive Board prior to submission for membership ratification.
- 3. To present written recommendations to the Executive Board to be considered at the following Executive Board meeting.
- 4. To approve position statements as presented by the Executive Board. Policy-making procedure has been formalized. Each committee chair submits statements (position statements, etc.) to the AMATYC Editing Director. Following its approval, the statement can be submitted to the Executive Board for its review. An open hearing is then held at an AMATYC conference. The statement is then brought before the Delegate Assembly. If the Delegate Assembly approves, the statement will then become AMATYC policy. The Delegate Assembly has the option of overriding a Board decision if 2/3 of the AMATYC delegates present approve bringing it to the Delegate Assembly for vote. Documents submitted must have the word "draft" written on every page until approval is granted.

Duties of state/province delegates

- 1. Attend Delegate Assembly (no reimbursement).
- 2. Appoint campus representatives for the colleges assigned to him/her by the Regional Vice President.
- 3. Actively solicit membership in AMATYC, especially membership of campus representatives.
- 4. Assist the Regional Vice President in updating the list of potential AMATYC members from his/her state/province.
- 5. Assist the Regional Vice President in updating the directory of two-year colleges in his/her state/province.
- 6. Furnish the Regional Vice President with a calendar of activities and concerns of members from the state/province for possible inclusion in the regional page of the *AMATYC News*.
- 7. Encourage articles for the *MathAMATYC Educator* and other AMATYC publications.

Duties of campus representatives

- 1. Assist the state/province delegate in promoting the activities of the association at his/her campus.
- 2. Forward a list of possible candidates for AMATYC membership to the assigned state/province delegate.
- 3. Assist the assigned state/province delegate and/or the Regional Vice President in updating the directory of two-year colleges in the state/province.
- 4. Keep the Regional Vice President aware of the changing curriculum patterns at his/her college by sending news related items to the assigned delegate.
- 5. Furnish the Regional Vice President items of interest from his/her school for the *AMATYC News* according to schedule.
- 6. Encourage colleagues to submit articles to the *MathAMATYC Educator*.
- 7. Solicit AMATYC institutional membership at home institution.

Rules of Conduct for AMATYC Delegate Assembly

Debate

In the virtual meeting, if a delegate wishes to speak to a motion, they will submit a request through an online form. The link to the form will be provided in the meeting chat. A delegate will enter their name, select their delegate type, and whether they wish to speak for a motion (pro), speak against a motion (con), or ask a process question (such as call the question). Process comments will be taken before pro and con comments. Process questions are used to make an original motion, to call for the question, to clarify, or to rise to a point of order. Pro or con comments will alternate until all comments are made. If there are delegates wishing to make comments (either pro or con), and there are no comments on the opposing side, comments will be heard from all delegates wishing to speak until all have been heard or the question has been called. Amendments and motions to table are considered "con." Each delegate who wishes to speak must be recognized by the President.

Debate begins with the maker of the original motion. Debate alternates between pro and con with the maker of the original motion considered pro. When there are no speakers left, debate ends, and the vote is taken. No speaker may speak to a motion more than two times. <u>Time limits</u> may be imposed on debate either by the President or by a vote of the body. <u>An initial limit of ten minutes will be used</u>.

Only members of the Delegate Assembly are permitted to speak.

Other Times (no motion on the floor)

The rules above are in effect any time a motion is on the floor. If no motion is under consideration, delegates may ask to speak by just telling their name and delegate status in the chat.

Open Discussion

Open discussion by delegates at the end of the Delegate Assembly is encouraged. At this time, delegates may present appropriate topics for consideration.

Topics presented must be clearly related to the purposes of AMATYC. The president shall interrupt and rule a speaker out of order if remarks do not lie within these guidelines.

A two-minute limit per delegate is observed. After hearing the topic and rationale, the president may open discussion on the topic, move to the next topic, or assign the topic to an appropriate committee for further discussion.



To: AMATYC Delegate Assembly

Year: 2024

Subject: Delegate Assembly Rules of Conduct

Submitted by: George Hurlburt, AMATYC President

Date: 10/11/2024

Motion: That the AMATYC Delegate Assembly approve the Rules of Conduct for the 2024 AMATYC Delegate Assembly as attached.

Rationale: Robert's Rules of Order specify that for a meeting you must have (a) Rules of Conduct, (2) an Agenda, and (3) a quorum.

To have a successful meeting, everyone must:

- Participate, and no one should dominate;
- Speak openly and honestly;
- Speak in a non-intimidating, non-harassing, and non-bullying manner
- Listen carefully to what others have to say;
- Search for common ground/agreement; and
- Stay on task.

It is a maker's goal that the Rules of Conduct help us achieve the bullets above and have a successful meeting.

| Action taken by the Delegate Assembly on: 12/14/24 | | | | |
|--|----------------------------|-----------|--|--|
| Approved | Postponed Until | Withdrawn | | |
| Disapproved | Returned for Further Study | Other | | |



To: AMATYC Delegate Assembly

Year: 2024

Subject: Delegate Assembly Agenda Approval

Submitted by: George Hurlburt, AMATYC President

Date: 10/11/2024

Motion: That the AMATYC Delegate Assembly approve the agenda for the 2024 AMATYC Delegate Assembly as attached.

Rationale: Robert's Rules of Order specify that for a meeting you must have (a) Rules of Conduct, (2) an Agenda, and (3) a quorum.

| Action taken by the Delegate Assembly on: 12/14/24 | | | |
|--|----------------------------|-----------|--|
| Approved | Postponed Until | Withdrawn | |
| Disapproved | Returned for Further Study | Other | |

2023 Delegate Assembly Minutes - with Attachments

American Mathematical Association of Two-Year Colleges

DELEGATE ASSEMBLY MINUTES

November 18, 2023

3:00 – 3:34 pm (EST)

Via Zoom

I. Call to Order

President Laura Watkins called the meeting to order at 3:00 pm (EST).

II. <u>Welcome and Introductions</u>

President Watkins welcomed the delegates and announced that Donn King was appointed as Parliamentarian and Past President Kathryn (Kate) Kozak as Timekeeper. President Watkins introduced the members of the 2022 – 2023 AMATYC Executive Board.

- Laura Watkins President
- George Hurlburt- President-Elect
- Kathryn (Kate) Kozak Past President
- Nancy Rivers Secretary
- Barbra Steinhurst Treasurer
- AJ Stachelek Northeast Vice President
- Dennis Ebersole Mid-Atlantic Vice President
- Alvina Atkinson Southeast Vice President
- Brandon Bartley Midwest Vice President
- Dale Johanson Central Vice President

- Shannon Ruth Southwest Vice President
- Sarah Pauley Northwest Vice President
- Eddie Tchertchian West Vice President

III. Announcement of Quorum

Secretary Nancy Rivers announced a delegate count of 98 out of 145 delegates and stated that there was a quorum.

IV. Approval of the Rules of Conduct

Without objection the Rules of Conduct (page 26 of the Delegate Assembly Packet) were approved.

V. Approval of the Agenda

The Agenda is included in the 2023 Delegate Assembly Packet (page 1 - 2). The numbering of the items after item VIII, which is labeled as Reports, is incorrect. The remaining items are to be renumbered in the following manner:

Old Business to be IX, New Business to be X, Items for Discussion to be XI, Announcements to be XII, and Adjournment to be XIII.

Without objection the Agenda (pages 1 - 2 of the Delegate Assembly Packet) with corrected numbering was approved.

VI. 2022 Delegate Assembly Minutes

President Watkins reported that the minutes from the 2022 Delegate Assembly (beginning on pages 19 through 24 of the Delegate Assembly Packet) held virtually were reviewed, corrected, and approved by the 2022 Delegate Assembly Minutes Approval Committee, chaired by Dale Johanson, 2022 – 2023 Vice President, Central.

VII. Approval of the 2023 Minutes Review Committee

Information on the Delegate Assembly Minutes Approval Committee is in the Delegate Packet (pages 27 - 29).

Motion: That the membership of the Minutes Review Committee for the 2023 AMATYC Delegate Assembly be approved as announced. (Attachment A)

The 2023 Delegate Assembly Minutes Approval committee consists of:

- AJ Stachelek, Northeast Vice President, Chair
- Carol Howald, State Delegate
- Dustin Walsh, Affiliate Delegate
- Trisha White, Affiliate President
- Nancy Sattler, AMATYC Past President
- Nancy Rivers, 2022 2023 AMATYC Board Secretary, will serve in an *ex officio* capacity.

Without objection the 2023 Delegate Assembly Minutes Approval Committee was approved as presented.

VIII. <u>Reports</u>

A. President's Report

The report was received in the Delegate Assembly packet (pages 30 – 31).

Additional items to include:

• There were 730 attendees and 55 guests for a total of 785 individuals for the conference.

B. Treasurer's Report

The report was received in the Delegate Assembly packet (pages 32 – 38).

C. AMATYC Foundation

The report was received in the Delegate Assembly packet (pages 39 – 40).

D. Strategic Planning

The strategies identified by AMATYC Executive Boards to address the Priorities outlined in the 2018 – 2023 Strategic Plan were received in the Delegate Assembly packet (pages 41 – 59). The 2024 – 2029 AMATYC Strategic Plan along with updated Mission, Vision, and Core Values approved by the 2022-2023 Executive Board are in the Delegate Assembly packet (pages 60 – 62).

E. Conference Site Selection

There was a site selection in 2022 due to relocating the 2026 AMATYC Annual Conference. Negotiations have been concluded and it was announced the 2026 AMATYC Annual Conference will be held in Philadelphia, PA. (page 63 of the Delegate Assembly packet).

IX. Old Business

During the 2021 Delegate Assembly, the delegates approved the position statement titled *Initial Placement of Students into the Mathematics Curriculum.* The delegates indicated at that time that the position statement should be referred back to the Placement and Assessment ANet for additional refining and the inclusion of references that support the espoused position. The ANet is continuing to work on the position statement and is following the standard position statement timeline. There is no report at this time.

X. <u>New Business</u>

A. Standards for Content: Julie Phelps

Motion: That the AMATYC Delegate Assembly approve the updates to the Standards for Content. (Attachment B)

Motion made by Julie Phelps (Chair), Standards Committee

Motion Approved

B. Standards for Intellectual Development: Julie Phelps

Motion: That the AMATYC Delegate Assembly approve the updates to the Standards for Intellectual Development. (Attachment C)

Motion made by Julie Phelps (Chair), Standards Committee

Motion Approved

C. Standards for Pedagogy: Julie Phelps

Motion: That the AMATYC Delegate Assembly approve the updates to the Standards for Pedagogy. (Attachment D)

Motion made by Julie Phelps (Chair), Standards Committee

Motion Approved

XI. Items for Discussion

- Sean Saunders, OCMA Question for consideration for the future: Could discounts for lifetime memberships be given for those who have been members for consecutive years, the discount being proportional to the length of consecutive membership?
- Helen Burn, Mathematics Pathways Anet Potential Discussion: Requested the Executive Board consider making a written statement around the importance of DEI efforts to our professional work. The concern arises from state-level legislation that is emerging across the country regarding DEI

initiatives. Perhaps consider partnering with the MAA or CBMS in fashioning the statement.

• Nancy Sattler, Past President – In response to Helen Burn's concern, the new Equity chapter for the AMATYC Standards is being written. Please, provide input when it becomes available for review.

XII. <u>Announcements</u>

President Watkins made the following announcements:

- **A.** Judith (Judy) Atkinson and April Crenshaw were recipients of the Teaching Excellence Award.
- **B.** The members of the 2024 2025 Nominating Committee were announced
 - Vera Hu, Northeast Region
 - Chris Ward, Mid-Atlantic Region
 - Caroline Sampson, Southeast Region
 - Carol Hannahs, Midwest Region
 - Curtis Mitchell, Central Region
 - Emily Thomasson, Southwest Region
 - Sandra Wildfeuer, Northwest Region
 - Ben Moulton, West Region
 - Barbara Leitherer, at large
 - Dave Tannor, at large
 - Christine Mirbaha, at large
 - Oscar Villalobos, at large
 - Laura Watkins, Chair

C. The members of the 2025 Teaching Excellence Award Committee have been selected.

- Chair, Eddie Tchertchian, President-Elect
- Bridget Dart, Northeast
- Carol Howald, Mid-Atlantic
- April Crenshaw, Southeast
- Paul McCombs, Midwest
- Trisha White, Central

- Katerina Vishnyakova, Southwest
- Vikki Maurer, Northwest
- Tan Nguyen, West
- (yet to be appointed), Adjunct

XIII. Adjournment

President Watkins recognized and thanked the Local Events Coordinator for the Omaha Conference, Amanda Olson, and her local team for all the work they performed for the Omaha Conference. Turi Suski, and the rest of the conference committee were also thanked for their year-long commitment and great work in bringing this wonderful conference in Omaha. Conference presenters and attendees were also thanked for a wonderful conference.

AMATYC Delegates were thanked for their participation in the Delegate Assembly.

President Watkins introduced the new 2024 – 2025 AMATYC Executive Board.

- George Hurlburt, President
- Eddie Tchertchian, President-Elect
- Laura Watkins, Past President
- Kyle Kundomal, Treasurer
- Jonathan Weisbrod, Secretary
- AJ Stachelek, Northeast Vice President
- Dennis Ebersole, Mid-Atlantic Vice President
- Alvina Atkinson, Southeast Vice President
- Brandon Bartley, Midwest Vice President
- Dale Johanson, Central Vice President
- Jennifer Travis, Southwest Vice President
- Jessica Bernards, Northwest Vice President
- Lindsey Gerber, West Vice President

The meeting adjourned at 3:34 pm (EST).

Nancy Rivers, Secretary, 2022-2023

Laura Watkins, President, 2022-2023

| Attachment | Title | |
|------------|--|----|
| A | Minutes Review Committee, 2023 AMATYC Delegate Assembly | 8 |
| В | Standards for Content | 9 |
| С | Standards for Intellectual Development | 13 |
| D | Standards for Pedagogy | 17 |

Attachment A: Minutes Review Committee, 2023 AMATYC Delegate Assembly

The 2023 Delegate Assembly Minutes Approval committee consists of:

- AJ Stachelek, Northeast Vice President, Chair
- Carol Howald, State Delegate
- Dustin Walsh, Affiliate Delegate
- Trisha White, Affiliate President
- Nancy Sattler, AMATYC Past President
- Nancy Rivers, 2022 2023 AMATYC Board Secretary, will serve in an *ex officio* capacity.

B: ATTACHMENT: Standards for Content

1 STANDARDS FOR CONTENT

2

3 AMATYC takes the position that to truly understand mathematics and statistics one must 4 know it conceptually, contextually, and procedurally and know that problem solving 5 is the heart of doing mathematics. The successful problem solver can view the world 6 from a mathematical perspective (Schoenfeld, 1992).

7 Students develop the ability to solve meaningful problems through in-depth study of
8 mathematics and statistics topics that build on their prior knowledge and experiences.
9 When presented in the context of relevant applications, abstract topics grow naturally
10 out of the need to describe or represent the patterns that emerge. In general, the
11 meaning, use, and communication of mathematical and statistical ideas must be
12 emphasized. Attention to rote memorization and manipulation must decrease.

13 AMATYC's Standards for Content elaborates on the inclusion of threads throughout the 14 curriculum related to numeracy, symbolism and algebra, geometry and measurement, 15 functions, discrete mathematics, statistics and probability, and deductive proof. The 16 standards that follow are not meant to outline a set of courses. Rather, they are strands 17 to be included in any post-secondary mathematics pathways in whatever structural form 18 they may take. The specific themes were selected so that learners can develop the 19 knowledge and skills needed to be discerning citizens, making data-based decisions 20 and evaluating mathematical and statistical arguments. Students should also be 21 equipped to pursue more advanced study in mathematics and other disciplines.

22 Standard C-1: Numeracy

23 Students will accurately process, interpret, and communicate numerical 24 information.

25

26 "Numeracy is the ability to process, interpret, and communicate numerical, 27 quantitative, spatial, statistical, even mathematical, information, in ways that are 28 appropriate for a variety of contexts, and that will enable a typical member of the 29 culture or subculture to participate effectively in activities that they value." (Evans, 30 2000) Students should be able to identify and perform appropriate arithmetic 31 operations, estimate reliably, judge the reasonableness of numerical results, 32 understand orders of magnitude, think proportionally, and make sense of data 33 (especially large data sets) to recognize patterns. This mathematical reasoning 34 may be enhanced through the use of technology.

35 Standard C-2: Symbolism and Algebra

36 Students will be able to interpret algebraic symbols, translate problems into

37 appropriate symbolic representations, and use those representations to

38 effectively answer questions and make predictions.

39 Students will move beyond concrete numerical operations and use algebraic thinking

40 and symbols to solve problems. Students will represent mathematical situations using a

41 combination of appropriate symbolic, graphical, and numerical methods to form

42 conjectures about the problems. Applications of algebraic thinking include derivation of

43 formulas, translation of realistic problems into mathematical statements, conversion 44 between different representations, and the solution of equations by appropriate

45 methods.

46

47 Standard C-3: Geometry and Measurement

48 Students will develop a spatial and measurement sense, learn to visualize and 49 use geometric models, recognize measurable attributes, and use and convert 50 units of measure.

51 Geometry is the study of visual patterns. Every physical object has a shape, so every 52 physical object is geometric. Furthermore, mathematical objects can be represented 53 geometrically. For example, real numbers are represented on a number line, forces are 54 represented with vectors, and statistical distributions are represented with the graphs of 55 curves. The use of dynamic geometry software provides for efficient integration of 56 geometric concepts throughout the curriculum, allowing students to more effectively 57 visualize geometric representations.

58 Students will demonstrate their abilities to visualize, compare, and transform objects 59 using geometric representations. Students will develop a spatial sense including the 60 ability to draw (either by hand or with the use of technology) one-dimensional, two-61 dimensional, and three-dimensional shapes from different perspectives, and extend a 62 concept, such as vectors, to higher dimensions. Their knowledge of geometry will 63 enable them to determine dimensions, area, perimeter, and volume of common plane 64 and solid figures. Suggested topics might include comparison of geometric objects 65 (including congruence and similarity), graphing, prediction from graphs, measurement, 66 and vectors.

67 Standard C-4: Function

68 Students will demonstrate understanding of the concept of function by several 69 means - numerically, graphically, symbolically, and verbally - and incorporate it 70 as a central theme into their use of mathematics.

71 Key curricular issues continue to stimulate dialogue and educational research. Since the

- 72 National Research Council recommended in 1989 that "If it does nothing else,
- 73 undergraduate mathematics should help students develop function sense..." (National
- 74 Research Council, 1989), considerable research has been conducted on what it means
- 75 for students to have an understanding of function. Studies report that a well-developed
- 76 understanding of function correlates closely with success in calculus, as well as
- 77 facilitating the transition to advanced mathematical thinking (Tall, 1992). In addition,
- 78 faculty continue to search for methods to develop a student's understanding of the
- 79 concept of variable. Students who are able to view variables as representing quantities
- 80 whose values change dynamically along a continuum have been shown to have ready

81 access to fundamental ideas, such as rate of change and limits, and exhibit higher

82 levels of achievement in mathematics. (Ursini, S., & Trigueros, M., 1997, Jacobs, S., 83 2002)

84

85 Students will know when a relation is a function. Students will use function notation and
86 perform operations on functions. Students will interpret functional relationships between
87 two or more variables and formulate such relationships when presented in tabular,
88 graphical, symbolic, or verbal representations as well as convert between
89 representations. Suggested topics include generalization about families of functions,

90 transformations of functions, use of functions to model realistic problems, and the

91 behavior of functions.

92

93 Standard C-5: Discrete Mathematics

94 Students will be able to recognize and use discrete mathematical algorithms and 95 develop combinatorial abilities in order to solve problems of finite character and 96 enumerate sets without direct counting.

97 This standard provides guidance for incorporating topics from discrete mathematics
98 courses (which may require precalculus or calculus as prerequisites) into introductory
99 college mathematics courses. Applications in the social and behavioral sciences,
100 business, computing, and other areas frequently do not exhibit the continuous nature
101 commonly treated by techniques studied in introductory college mathematics pathways.
102 Rather, these applications involve discrete objects and focus on logic and enumeration
103 (Dossey, 1991; Hart, 1991). The standard echoes the recommendations made in the
104 NCTM *Standards* (NCTM, 2008) and in *Reshaping College Mathematics* (Siegel, 1989);
105 namely, the conceptual framework of discrete mathematics should be integrated
106 throughout the introductory mathematics pathways, as appropriate, in order to improve
107 students' problem-solving skills and prepare them for the study of higher levels of
108 mathematics as well as for their careers. Suggested topics in discrete mathematics may
109 include set theory, logic, graph theory, game theory, algorithms, proofs, sequences,
110 series, permutations, combinations, recursion, linear programming, finite graphs, voting

112

113 Standard C-6: Statistics and Probability

114 Students will use data to inform decisions and understand the world around 115 them.

116 The basic concepts of statistics, data science, and probability should be integrated
117 throughout the curriculum using relevant contexts and appropriate technology. Students
118 should recognize and describe variability, take variability into account when making
119 decisions, as well as make and communicate data-based arguments. Suggested topics
120 include appropriate methods for collecting data, creating and interpreting data
121 visualizations, sampling variability, drawing conclusions from sample data, modeling,
122 applications of probability, and the ethical use of data.

123 Standard C-7: Deductive Proof

124 Students will appreciate the deductive nature of mathematics as an identifying 125 characteristic of the discipline; recognize the roles of definitions, axioms, and 126 theorems; and identify and construct valid deductive arguments.

127 The use of deductive proof in mathematics sets it apart as a unique area of human
128 endeavor. Where appropriate to enhance student understanding of mathematical
129 concepts, mathematical proofs, including indirect proofs and mathematical induction,
130 will be introduced. Students will engage in exploratory activities that will lead them to
131 form statements of conjecture, test them by seeking counterexamples, and identify and,
132 in some instances, construct arguments verifying or disproving the statements. A
133 variety of proof techniques, including the use of manipulatives, diagrams, and pictures
134 to create proofs without words or symbols, should also be encouraged.

ATTACHMENT C: Standards for Intellectual Development

1 1STANDARDS FOR INTELLECTUAL DEVELOPMENT

2

3 At the conclusion of the first two years of their college studies, all students should have
4 progressed in their development of certain intellectual abilities and of other
5 competencies and knowledge. Introductory college courses across disciplines should be
6 designed to broaden an existing educational foundation and allow students to
7 appreciate mathematics, statistics, and data science as powerful reasoning and general
8 problem solving tools. AMATYC's Standards for Intellectual Development include the
9 areas of problem solving, modeling, reasoning, connecting with other disciplines,
10 communicating, using technology, developing mathematical prowess, and linking
11 multiple representations.

12

13 Standard 1-1: Problem Solving

14

15 Students will engage in relevant, authentic problem solving and mathematical and 16 statistical thinking.

17

18 Students will use problem-solving strategies that require persistence, analysis of

19 assumptions, intellectual risk taking and application of appropriate procedures. These

20 strategies should include posing questions; organizing information; constructing visual

21 representations; solving similar, simpler problems; analyzing situations through trial and

22 error, graphing, and modeling; and drawing conclusions by translating, illustrating, and

23 verifying results. The students should be able to communicate and interpret their

24 results.

25

26 Emphasizing problem solving will make mathematics more meaningful to students. The 27 problems used should be relevant to the needs and interests of the students in the

28 class. Such problems provide a context as well as a purpose for learning new skills, 29 concepts, and theories.

30

31 Standard 1-2: Modeling

32

33 Students will learn mathematics and statistics through modeling real-world 34 situations.

35

36 Students will participate in the mathematical and statistical modeling of situations from 37 the world around them and use the models to make predictions and informed decisions. 38 Swetz (1991) describes the mathematical modeling process as "(1) identifying the 39 problem, including the conditions and constraints under which it exists; (2) interpreting 40 the problem mathematically; (3) employing the theories and tools of mathematics to 41 obtain a solution to the problem; (4) testing and interpreting the solution in the context of 42 the problem; and (5) refining the solution techniques to obtain a 'better' answer to the 43 problem under consideration, if necessary" (pp. 358-359). The statistical modeling 44 process is similar but also involves connecting data, chance, and context (Pfannkuch, 45 et.al, 2018).

46

47 Whether students develop their own models or evaluate models that are given to them, 48 they should look beyond how well a proposed model fits a set of data and attempt to 49 provide contextual, mathematical, statistical, or data-based reasons for why the model 50 is valid.

51 Standard 1-3: Reasoning

52

53 Students will expand their mathematical and statistical reasoning skills as they 54 develop convincing mathematical, statistical, and data-based arguments.

55

56 Students will regularly apply inductive and deductive reasoning techniques to build 57 convincing mathematical, statistical, and/or data-based arguments. They will develop 58 conjectures on the basis of previous knowledge, data, and intuition and test these 59 conjectures by using logic and deductive and inductive proof, by framing examples and 60 counterexamples, and by probabilistic and statistical reasoning. They will then draw 61 appropriate conclusions and communicate their argument convincingly. In addition, 62 students will judge the validity of mathematical, statistical, and/or data-based arguments 63 using the same reasoning skills.

64

65 Standard 1-4: Connecting with Other Disciplines

66

67 Students will develop the view that mathematics, statistics, and data science are 68 growing disciplines, are interrelated with human culture, and understand their 69 connections to other disciplines.

70

71 If students are to gain a sense that mathematics, statistics, and data science are 72 growing disciplines, course content must include current and relatable topics such as 73 algorithms needed for computer-based solution processes, the use of probability in 74 understanding chance and randomization, modern approaches to statistical inference 75 and data visualization, and the applications of non-Euclidean geometries. These topics 76 lend themselves to discussions of who developed the ideas, when they were developed, 77 and what kind of human endeavors motivated their development, which reinforces 78 recognition of math in all parts of life and cultures. Students should develop an 79 appreciation of how mathematics and statistics provide a language for the sciences; 80 play a role in art, music, and literature; are applied by social scientists and practitioners 81 in health care fields; are used in business and manufacturing; and have impacted 82 history.

83

84 Standard 1-5: Communicating

85

86 Students will develop the ability to read, write, listen to, and speak the languages 87 of mathematics, statistics, and data science.

88

89 Students will develop the skills necessary to communicate ideas and procedures, and

90 results using appropriate mathematical and statistical vocabulary and notation. Students

91 will develop the ability to communicate the results of analyses through appropriate

92 models and visualizations. Furthermore, mathematics, statistics, and data science

93 faculty will adopt instructional strategies that develop both oral and written

94 communication skills within a context of authentic applications relevant to a diverse

95 student population. As students learn to speak and write about mathematics, statistics,

96 and data science, they develop acumen and become better prepared to use this

97 knowledge and these skills beyond the classroom.

98

99 Standard 1-6: Using Technology

100

101 Students will use appropriate technology to enhance their thinking and 102 conceptual understanding and to solve problems.

103

104 Students will develop an ability to use technology to enhance their study of

105 mathematics, statistics, and data science. Current technology can be used to aid in the

106 understanding, exploration, and visualization of concepts and the analysis of

107 data. Students can use technology to test conjectures, explore ideas, and verify that

108 theorems are true in specific instances. They should also embrace technology as a tool 109 to aid in the solution of authentic problems and to validate those solutions. Students

110 should be able to judge the reasonableness and accuracy of the results generated by

111 technology.

112

113 Standard 1-7: Developing Mathematical Prowess

114

115 Students will engage in rich experiences in the study of mathematics, statistics,

116 data science, and related fields that encourage independent, nontrivial

117 exploration and will develop and reinforce tenacity and confidence in their

118 abilities and inspire them to further their studies in these fields.

119

120 Students will develop self-confidence and persistence while engaging with mathematics, 121 statistics, and data science problem-solving. These problems will not always have

122 unique solutions but will provide experiences that develop the ability to conduct

123 independent explorations. At the same time, they will learn to transfer problem-solving

124 strategies to a variety of contexts (Druckman & Bjork, 1994) and appreciate

125 mathematics, statistics, and data science as disciplines. They will visualize themselves

126 using mathematics and statistics effectively in their professional work and everyday

127 lives. They will develop an awareness of careers in mathematics and related

128 disciplines.

129

130 Standard 1-8: Linking Multiple Representations

131

132 Students will select, use, and translate among mathematical and statistical

133 representations—numerical, graphical, symbolic, and verbal—to organize

134 information and solve problems using a variety of techniques.

135
136 Students will explore complex problems, using multiple approaches, and explain their 137 solutions in both oral and written form. Students will be motivated to go beyond the 138 mastery of basic operations, statistical algorithms, or algebraic manipulations to a real 139 understanding of how to use mathematics and statistics, the meaning of the answers, 140 and how to interpret them.

ATTACHMENT D: Standards for Pedagogy 1 STANDARDS FOR PEDAGOGY

2 When planning a lesson, an instructor should start with the question "what should 3 students do?", rather than "what should I do?" AMATYC supports the idea that 4 learning is a social endeavor; therefore, it is important that we humanize the 5 culture of learning mathematics, statistics, and data science (Yeh & Otis, 2019).
6 The most impactful classrooms use learner-centered pedagogies, such as active 7 learning, in a classroom environment that fosters a sense of community (CBMS, 8 2016; NCTM, 2014). Faculty must create frequent opportunities for students to 9 develop and demonstrate conceptual, contextual, and procedural understanding 10 of topics. This requires pedagogical practices that may include students using 11 concrete tools to model abstract ideas, engaging in mathematical and statistical 2 discourse, connecting different representations of the same idea, using prior 13 knowledge to construct new knowledge, and understanding connections between 14 the mathematics and statistics they are learning and what they already know.
15 Progress has been made toward the goal of more effectively teaching students to

16 deeply understand mathematics and statistics; however, there is a need for more 17 faculty to consistently identify and use pedagogical strategies that promote 18 equitable student learning. AMATYC's Standards for Pedagogy that follow 19 recommend the use of instructional strategies that provide for student activity and 20 student-constructed knowledge. Evidence-based strategies which can be 21 incorporated by most teachers without requiring substantial faculty development 22 are highlighted in these standards. Furthermore, the standards are in agreement 23 with the instructional recommendations contained in *Common Vision* (2015). The 24 standards include active learning, making mathematical connections, multiple 25 representations and approaches, teaching with technology, experiencing 26 mathematics and statistics, and assessment of student learning.

27 Standard P-1: Active Learning

28 Faculty will facilitate active learning that promotes increased and deeper

29 mathematical and statistical reasoning abilities in students. Widespread

30 implementation of high-quality active learning can help reduce or eliminate

31 achievement gaps in STEM courses and promote equity in higher education.

32 The Conference Board of Mathematical Sciences (CBMS) uses the phrase "active 33 learning to refer to classroom practices that engage students in activities, such as 34 reading, writing, discussion, or problem solving, that promote higher-order 35 thinking" and calls on institutions to incorporate active learning into post-36 secondary instruction (2016).

37 Active learning can be further defined by the following guiding principles: (1) 38 students' deep engagement in mathematical thinking (PRoficiency), (2) 39 instructors' interest in and use of student thinking (OWnership), (3) student-to-40 student interaction (Engagement), and (4) instructors' attention to equitable and 41 inclusive practices (Student Success). Active learning benefits all students and 42 offers disproportionately greater benefits for individuals from underrepresented

43 groups by reducing achievement gaps in exam scores and passing rates (Laursen 44 & Rasmussen, 2019)

45 Learning occurs when students construct their own knowledge through
46 collaboration and when students are cognitively engaged with mathematics
47 (Smith, et al, 2021). Participation in mathematical and statistical discourse, as well
48 as writing and reading about mathematical and statistical ideas teaches students
49 how to communicate about mathematics both orally and in writing. This creates a
50 sense of community in the classroom and allows students to learn to work
51 effectively to solve challenging problems. "For students from different
52 socioeconomic, cultural, and educational backgrounds, and for students with
53 different approaches to learning and social interaction, a supportive community of
54 learners can be cultivated using AL techniques." (CBMS, 2016, para. 13)
55 "Working in groups also provided less confident or less able students with
56 opportunities to explain, question, agree and disagree and test their thinking in a
57 less threatening context" (Sharma, 2015).

58

59 Standard P-2: Making Mathematical Connections

60 Faculty will actively involve students in meaningful mathematics work that 61 connects to students' experiences and focuses on broad mathematical and

62 statistical themes that build connections within branches of mathematics,

63 and with other disciplines. Students will view mathematics and statistics as

64 relevant to their lives. Making mathematics and statistics relevant and

65 meaningful is the collective responsibility of faculty, administrators, and 66 producers of instructional materials.

67 Traditionally, there has been a disconnect between classroom mathematics and
68 real-world mathematics. Mathematics and statistics must not be presented asisolated sets
69 of rules and procedures, but rather as disciplines that arose out of,
70 and are connected to, the needs of other fields. Further, students should be
71 encouraged to make explicit connections between mathematical concepts,
72 including those that may have been traditionally compartmentalized. Topics
73 learned in one branch of mathematics should be explicitly aligned with topics from
74 another, e.g. how principles learned in arithmetic can be generalized to principles
75 in algebra, which can then be connected to topics in geometry.

76 Students must have the opportunity to observe the interrelatedness between 77 scientific and statistical, and mathematical investigation, and see first-hand how 78 mathematics and statistics connect to their lives. Curriculum should include 79 meaningful mathematics work that allow students to bring their experiences into 80 the classroom. Authentic applications help students see how mathematics and 81 statistics are relevant in their lives and in the world around them (Benson-82 O'Connor, 2019; GAISE, 2016).

83 Understanding that mathematics and statistics have relevance to their life and to 84 the world in general improves student motivation to learn and ability to connect 85 ideas. Students who understand the role that mathematics and statistics have 86 played in their cultures and the contributions of their cultures to mathematics and 87 statistics are more likely to persevere in their study of the discipline. Faculty 88 should include aspects of mathematics history and contemporary mathematics 89 that provide counterexamples to the pervasive Eurocentric bias found in modern 90 mathematics. Instructional activities should provide examples of how mathematics 91 and statistics are used in a variety of cultures, and by people of every race, 92 ethnicity, gender identity, class, and other social groups. Additionally, instruction 93 should be culturally relevant, culturally responsive, and culturally sustaining (Alim, 94 2017).

95

96 P-3 Multiple Problem Solving Strategies

97

98 Faculty should help students become flexible problem solvers by allowing 99 students to discover multiple problem solving strategies and to identify 100 efficient strategies.

101

102 Flexibility in problem solving is an important element of mathematical proficiency 103 (CCSSI, 2012). Faculty should provide opportunities for students to discover their 104 own problem solving strategies and reflect on them (Star & Rittle-Johnson, 2007). 105 Flexibility develops from exposure to multiple methods, comparison of worked 106 examples, prompting and direct instruction, invention of a second method for a 107 previously solved problem, and the opportunity to collaborate with peers (Newton 108 et al., 2020). Experience with multiple problem solving strategies helps students 109 adaptively choose more efficient strategies based on the content or context of the 110 problem (Rittle-Johnson & Star, 2007).

111

112 P-4 Multiple Representations of Mathematical Concepts

113 Faculty will provide opportunities for students to use, share, and make
114 sense of multiple representations of mathematical and statistical ideas.
115 These multiple representations may include words, equations, different
116 algebraic notations, graphs, diagrams, models, manipulatives, and
117 computer code.

118 Mathematics and statistics are connected webs of knowledge where conceptual 119 knowledge links the individual pieces of information. "The development of this 120 conceptual knowledge can only be done so by the construction of relationships 121 between pieces of information" (Hiebert, 1986). "The skills that are at the focal 122 point of conceptual learning in mathematics are the ability to identify and express 123 the same concept in different forms of representation, to choose the most 124 appropriate representation from among the various representations, and to be 125 aware of the advantages and disadvantages of the representations" (İncikabı, 126 2017).

127 Using multiple representations broadens and deepens the connections students128 make between concepts (Abell et al., 2018; Gleason & Hughes Hallett, 1992;129 Knill, 2009). This will motivate students to go beyond the mastery of basic

130 operations to a deeper understanding of how to use mathematics and statistics,

131 the meaning of the answers, and how to interpret them (NRC., 1989)

132

133 Standard P-5: Teaching with Technology

134 Faculty will use appropriate technology to promote deeper student learning 135 and will model the use of technology.

136 Technology is an integral part of modern mathematics and statistics instruction.
137 Faculty should be purposeful in their selection of technology, considering how it
138 aids learning mathematical, statistical, and data science ideas. Pedagogy will
139 include the use of technology to solve, model, and investigate mathematical and
140 statistical problems and will provide students with opportunities to develop
141 conceptual understanding. Emphasis should be placed on the use of high-quality,
142 flexible, accessible technologies that enhance learning. The use of tools that
143 students are likely to encounter in future work and careers, such as statistical
144 software and web-based apps, is essential.
145
146 Standard P-6: Experiencing Mathematics and Statistics

147

148 Faculty will provide learning activities beyond the scope of the classroom

149 that promote independent thinking and challenge students to persistently

150 pursue efforts over an extended time period.

151 Faculty should seek opportunities to expand student knowledge of how
152 mathematics and statistics are used beyond the scope of the classroom by
153 providing learning activities, including open-ended projects and research
154 opportunities. In addition, they should help their institutions form partnerships with
155 area businesses and industries to develop opportunities for students to have
156 realistic career experiences (Reich, 1993). Such activities will enable students to
157 acquire the confidence to access and use needed technical information, and to
158 independently form conjectures from an array of specific examples, and to draw
159 conclusions from general principles.

160 Standard P-7: Assessment of Student Learning

161 Faculty will incorporate multiple strategies for formative and summative 162 assessments to inform future pedagogical practices and to help students 163 recognize their current understanding.

164 Formative and summative assessments are complementary tools for assessing
165 the progression of student learning and informing instruction. Formative
166 assessment benefits students and faculty by helping them recognize students'
167 current knowledge and setting goals for future understanding. Formative
168 assessment takes place regularly during a term and is designed to be low-stakes

169 and informative. Any activity that gives students an opportunity to engage with

170 feedback to improve their understanding is an opportunity for formative

- 171 assessment. Another goal of formative assessment is to inform teaching practices
- 172 and strategies to best meet the needs of learners. Good formative assessment
- 173 produces significant, and often substantial, learning gains (Black & William, 2005).
- 174 Formative assessment is most effective when the following principles are applied
- 175 (Gehrtz, Brantner, & Andrews, 2022; Purcell, 2014; Yale University, 2021).
- 176 Regularly refer to the learning objectives and explicitly connect them to the
- 177 learning activities.
- 178 · Watch and listen to students as they work to understand student thinking
- before intervening. Ask open-ended questions that provide opportunities for
- 180 students to further describe and explain their thinking and reasoning.
- 181 · Use qualitative oral and written comments that help students recognize what
- 182 they understand and what they need to do to increase understanding.
- 183 · Adapt teaching plans as a result of the formative assessment outcomes.
- 184 · Useful and timely feedback is essential for assessments to lead to learning
- 185 (GAISE, 2016)
- 186 Summative assessments are for the purpose of evaluating student learning and
- 187 assigning grades. It is especially important to ensure that the assessment aligns
- 188 with the goals and expected outcomes of the instruction. Instructors should use
- 189 multiple forms of summative assessment such as projects, portfolios, and
- 190 demonstration of understanding in authentic situations. Instructors should
- 191 consider the following principles when designing summative assessments
- 192 (Blonder, et al.; Yale University, 2021).
- 193 · Design clearly understood questions that align with learning objectives.
- 194 Provide an opportunity for students to demonstrate their understanding of
- how the foundational concepts of the course are interrelated and can be
- 196 applied beyond the course contexts.
- 197 · Provide opportunities to close the gap between current and desired
- 198 performance, such as opportunities for resubmission.
- 199 · Consider matters of equity to ensure all students have opportunities to
- 200 succeed. This may require flexible structure in conducting assessments.
- 201 Flexible assessments, such as team quizzes, take home assignments, and
- 202 projects provide more equity and inclusion in math courses.

Delegate Assembly Minutes Approval Procedure

- 1. At each Delegate Assembly, a Minutes Review Committee of five voting members shall be recommended by the President and approved by motion of the Delegate Assembly. The committee chair shall be a continuing Regional Vice President, or if none, another continuing officer other than the President and the other members shall include a state delegate, an affiliate delegate, and affiliate president and an AMATYC Past---President. The committee will meet briefly at the close of the Delegate Assembly.
- 2. The AMATYC Secretary shall supply a draft copy of the minutes to the committee within 14 days after the Delegate Assembly. The chair should have an electronic document version for editing.
- 3. The committee chair shall receive suggestions from the committee, collate and synthesize the suggestions and forward suggestions to the Secretary. The chair should use a review process that ensures that a majority of the committee members are satisfied with the proposed changes.
- 4. The committee chair will conduct an email ballot to approve the minutes. A majority of the committee must approve the minutes. These approved minutes will be sent to the AMATYC Secretary within 60 days of the Delegate Assembly.
- 5. A copy of the approved minutes will be included in the delegate packet.
- 6. At the following Delegate Assembly, the committee chair will report that the minutes were reviewed, corrected, and approved by the Minutes Review Committee.

| At each Delegate Assembly, a motion of the Delegate Assembly shall appoint a Minutes Review |
|---|
| Committee of five voting members. |

| Qualifications | Name | Affiliation |
|---------------------------------|------|-----------------------|
| Regional Vice President (Chair) | | Executive Board |
| State Delegate | | |
| Affiliate Delegate | | |
| Affiliate President | | |
| AMATYC Past President | | AMATYC Past President |

Proposed members of the Minutes Review Committee for the 2024 Delegate Assembly

| Qualifications | Name | Affiliation |
|---|---------------------|-----------------------|
| Regional Vice President (Chair) | Alvina Atkinson | Executive Board |
| State Delegate | Chauntelle Eckhaus | VT |
| Affiliate Delegate | egate Catalina Yang | |
| Affiliate President | Cristina Dita | TexMATYC |
| AMATYC Past President | Nancy Sattler | AMATYC Past President |
| AMATYC Secretary (<i>ex officio</i>) | Jonathan Weisbrod | Executive Board |



To: AMATYC Delegate Assembly

Year: 2024

Subject: Delegate Assembly Minutes Approval Committee

Submitted by: George Hurlburt, AMATYC President

Date: 10/11/2024

Motion: That the AMATYC Delegate Assembly approve the membership of the Minutes Review Committee for the 2024 AMATYC Delegate Assembly as attached.

Rationale:

The Delegates Assembly Minutes Approval Procedure as listed in the AMATYC Policy and Procedures Manual, section 4.2.3 states: At each Delegate Assembly a Minutes Review Committee of five voting members shall be recommended by the President and approved by motion of the Delegate Assembly. The committee chair shall be a continuing Regional Vice President, or if none, another continuing officer other than the President, and the other members shall include a state delegate, an affiliate delegate, an affiliate president and an AMATYC Past President. This committee will meet briefly at the close of the Delegate Assembly.

The committee will be formed at the AMATYC Annual Conference and a membership list attached at that time.

| Action taken by the Delegate Assembly on: 12/14/24 | | | | | |
|--|----------------------------|-----------|--|--|--|
| Approved | Postponed Until | Withdrawn | | | |
| Disapproved | Returned for Further Study | Other | | | |
| | | | | | |



President's Report 2024 AMATYC Delegate Assembly George Hurlburt

I am pleased to report that AMATYC and its membership are advancing numerous initiatives that help AMATYC achieve its mission. Below are some highlights from 2024.

Atlanta Conference: I am very excited for the AMATYC's 50th Annual Conference in Atlanta. We have several special events, including a Past President Panel, a chance to hear about the history of AMATYC from those who lived it, and the Involvement Fair. I am hopeful that members will join us there as the city has much to offer. The delegate assembly is considered part of our conference proceedings and is being held virtually on Saturday, December 14th. The conference committee, as well as the local events committee, has worked hard to produce a wonderful conference opportunity, November 14 – 17th. I want to thank Turi Suski, Michael Pemberton, Julie Gunkelman, Nathalie Vega-Rhodes, Crystal Wiggins, and Todd Stein and all of the members of the local events committee for all their efforts in creating a wonderful conference experience.

Fiscal Issues: The organization continues to face financial challenges. Membership and conference attendance has not bounced back as quickly as hoped, causing AMATYC to dip into its reserves. These reserved funds were saved by previous Boards and has allowed AMATYC to weather the challenges of navigating through a global pandemic. AMATYC has had to use its reserve funds to cover operating expenses. In 2024, \$80,000 of AMATYC's reserve funds were used to cover these expenses. More funds may need to be transferred for expenses through the end of the year. The Board continues to look for ways for the organization to save money. For example, travel for the Executive Director was cut for 2024 and the Spring Board Meeting will be held virtually, creating substantial savings for the organization.

Board Initiatives: The Executive Board took on two major initiatives this year. First, recognizing that our website and member database were not up to current standards, we conducted a search to partner with a new company. Our first round of interviews included more than 20 companies. Through three rounds of interviews, we narrowed it down and have partnered with Brynk. Look forward to a fresh website in 2025 and improved communications through our new member database.

Secondly, Executive Director Anne Dudley announced her retirement effective April 1, 2025, causing the Executive Board to conduct a search for a new Executive Director. We have interviewed four excellent candidates for the position, however, as of the writing of this letter, we have not chosen our next ED.

Monthly Meetings: The Executive Board has continued having two-hour monthly meetings in months where SPO, SBM, or FBM *are not* scheduled, we also do not meet in December. These

meetings have been successful and provided the board with the opportunity to be more responsive to the needs of AMATYC.

Grants: AMATYC continues to support the research efforts of its members. So far this year, AMATYC has provided Level 1 and Level 2 support to grants submitted to the National Science Foundation.

AMATYC currently has two Level 2 NSF-funded projects. The *Teaching for PROWESS* (TfP) project is a five-year NSF grant of \$1.8 million focusing on improving student success through active learning and on making systemic changes in mathematics education in the community college following the guidelines of the IMPACT document and is in its fourth year. AMATYC members are encouraged to consider hosting a summer workshop offered by this project.. Additionally, AMATYC received a grant titled *Two-Year College Data Science Initiative* which hosted a workshop in June for two-year college faculty working to develop data science programs at their institutions.

Collaborations: AMATYC continues to enjoy numerous partnerships with other national organizations and entities. AMATYC funds presidential exchanges with the MAA, NCTM, NCSM, AMTE, NOSS, and TODOS. AMATYC partners with the ASA and JCW on joint committees and with the ASA and the MAA on joint webinars. AMATYC continues to participate as one of 19 member-organizations on the Conference Board of the Mathematical Sciences (CBMS). Participation in CBMS has created closer relationships with other mathematics-focused organizations such that we are able to explore new opportunities for collaboration.

Thank you: I want to thank Anne Dudley, Executive Director, the AMATYC Office, the 2024-2025 AMATYC Executive Board, and Turi Suski, Conference Coordinator, for all their work this year. You made my job much easier.

AMATYC

Balance Sheet December 31, 2023

ASSETS

| Current A | ssets | | |
|-----------|-------------------------------|--------------|--------------|
| 1030 | Cadence Bank Checking | 9,493.84 | |
| 1035 | Bank of America Checking | 86,000.00 | |
| 1060 | Accounts Receivable | 184,464.97 | |
| 1091 | Merrill Lynch - Fund 1 Stock | 1,390,132.93 | |
| 1097 | AMATYC Foundation Investments | 599,069.60 | |
| | Total Current Assets | | 2,269,161.34 |
| Other Ass | ets | | |
| 1105 | Prepaid Conference Expense | 9,198.40 | |
| 1106 | Prepaid Expense | 32,177.90 | |
| 1108 | Prepaid Insurance | 5,927.84 | |
| 1180 | Computer Equipment | 16,102.67 | |
| 1220 | Office Furniture | 899.98 | |
| 1230 | Accumulated Depreciation | (14,844.39) | |
| | Total Other Assets | | 49,462.40 |
| | Total Assets | | 2,318,623.74 |
| | | | |

LIABILITIES AND NET ASSETS

| Liabilities 1330 1335 1340 1360 1370 | Prepaid Membership Income Prepaid Income Accounts Payable College Math Journal Primus Journal | $19,129.00 \\ 3,500.00 \\ 170,824.22 \\ 165.00 \\ 544.00$ | |
|---|---|---|--------------|
| | Total Liabilities | | 194,162.22 |
| Net Assets | | | |
| 1500 | Net Assets | 1,513,925.84 | |
| Net Assets | : With Donor Restriction | | |
| 1505 | Other Foundation | 264,010.11 | |
| 1506 | Endowments | 289,801.82 | |
| | Change In Net Assets | 56,723.75 | |
| | Total Net Assets | | 2,124,461.52 |
| | Total Liabilities & Net Assets | | 2,318,623.74 |

48

AMATYC Income Statement For the Twelve Months Ending December 31, 2023

| | | Year to Date | Budget | Available Balance |
|--------------|--|---|---|----------------------|
| INC | <u>OME</u> | | | |
| MEM | BERSHIP DUES INCOME | | | |
| 1610 | Individual Member Dues | 85,036.50 | 135,100.00 | 50,063.50 |
| 1620 | Individual Membership Refund | 0.00 | 0.00 | 0.00 |
| 1625 | Adjunct Membership Dues | 2,107.00 | 5,335.00 | 3,228.00 |
| 1630 1635 | Retired Membership Adjunct Membership Dues Refund | 2,597.00 0.00 | 2,910.00 0.00 | 313.00 0.00 |
| 1635 | Life Membership Dues | 7,840.00 | 9,620.00 | 1,780.00 |
| 1645 | Discount/coupon Membership Due | (980.00) | (600.00) | 380.00 |
| 1650 | Associate Membership Dues | 450.00 | 750.00 | 300.00 |
| 1655 | WebScription | 125.00 | 0.00 | (125.00) |
| 1670 | Institutional Membership Dues | 61,434.00 | 76,024.00 | 14,590.00 |
| 1680 | Institutional Member Refund | 0.00 | 0.00 | 0.00 |
| 1700 | Library Membership Dues | 784.00 | 2,123.00 | 1,339.00 |
| 1710 | Library Subscriptions Refund | 0.00 | 0.00 | 0.00 |
| | TOTAL MEMBERSHIP DUES INCOME | 159,393.50 | 231,262.00 | 71,868.50 |
| INVE 1740 | STMENT INCOME CD Interest | 0.00 | 0.00 | 0.00 |
| 1740 | Investmen-Unrealized gain/loss | 157,458.81 | 0.00 | (157,458.81) |
| 1742 | Investment Income | 45,635.83 | 76,920.00 | 31,284.17 |
| 1745 | Interest Inc ACCCESS Grant | 0.00 | 0.00 | 0.00 |
| 1748 | Interest Inc. NSF Grant | 0.00 | 0.00 | 0.00 |
| 1750 | Interest Income Checking | 0.00 | 150.00 | 150.00 |
| 1755 | Interest Inc. Life Mbr Fund | 0.00 | 0.00 | 0.00 |
| 1760 | MMF Dividends | 0.00 | 0.00 | 0.00 |
| | TOTAL INVESTMENT INCOME | 203,094.64 | 77,070.00 | (126,024.64) |
| OTHE | ER INCOME | | | |
| 1800 | Educator Advertising | 0.00 | 1,000.00 | 1,000.00 |
| 1805 | Educator Advertising Refund | 0.00 | 0.00 | 0.00 |
| 1810 | Discount - Educator Adver. | 0.00 | 0.00 | 0.00 |
| 1815 | Finance Charges - Educator | 0.00 | 0.00 | 0.00 |
| 1860 1862 | Other Advertising Income Webinar Sponsorship | 600.00 0.00 | 3,000.00 0.00 | 2,400.00 0.00 |
| 1865 | Corporate Partnership | 6,400.00 | 8,000.00 | 1,600.00 |
| 1873 | NSF Grants/Indirect Cost | 9,330.41 | 0.00 | (9,330.41) |
| 1910 | Grants | 524,168.43 | 10,000.00 | (514,168.43) |
| 1920 | Donations/Contributions | 10,000.00 | 10,000.00 | 0.00 |
| 1940 | Miscellaneous Income | 0.00 | 0.00 | 0.00 |
| 1945 | Online Store Income | 108.91 | 0.00 | (108.91) |
| 1950 | Student Math League | 3,030.00 | 3,850.00 | 820.00 |
| 1960 | Student Research League | 460.00 | 700.00 | 240.00 |
| | TOTAL OTHER INCOME | 554,097.75 | 36,550.00 | (517,547.75) |
| | FERENCE INCOME | 0/0 150 00 | | 100 500 00 |
| 2030 2031 | Conference Registration Virtual Conference Reg | 262,158.00 | 365,760.00 0.00 | 103,602.00 |
| 2031 | Discount - FTA Conf. Reg | 0.00 (3,150.00) | (5,000.00) | 0.00 (1,850.00) |
| 2035 | Conference Registration Refund | (4,774.00) | 0.00 | 4,774.00 |
| 2060 | Exhibitors | 36,633.00 | 57,925.00 | 21,292.00 |
| 2065 | Web Link | 0.00 | 0.00 | 0.00 |
| 2070 | Commercial Presentations | 3,000.00 | 12,000.00 | 9,000.00 |
| 2075 | Exhibitor PP / Focus Groups | 200.00 | 2,400.00 | 2,200.00 |
| 2080 | Exhibitor Refund | 0.00 | 0.00 | 0.00 |
| 2090 | Commercial Presentation Refund | 0.00 | 0.00 | 0.00 |
| 2120 | Hospitality Donations | 2,550.00 | 0.00 | (2,550.00) |
| 2140 | Hospitality Refunds | 0.00 | 0.00 | 0.00 |
| 2200 2280 | Symposia/Workshop Conference Program Advertising | $\begin{array}{c} 0.00\\ 0.00\end{array}$ | $\begin{array}{c} 0.00\\ 0.00\end{array}$ | $0.00 \\ 0.00$ |
| 2280 | Conference Program Advertising Discount - Conf. Program Adver | 0.00 | 0.00 | 0.00 |
| 2285 | Finance Charges - Conf Program | 0.00 | 0.00 | 0.00 |
| 2320 | Conf. Program Adver. Refunds | 0.00 | 0.00 | 0.00 |
| 2325 | Corporate Partnership | 25,600.00 | 32,000.00 | 6,400.00 |
| 2330 | In-The-Bag Advertising | 2,400.00 | 1,200.00 | (1,200.00) |
| 2335 | Conference Adv. Opportunities | 1,500.00 | 4,500.00 | 3,000.00 |
| 2338 | Merchandise (Conf Email List) | 0.00 | 1,500.00 | 1,500.00 |
| 2340 | Other Conference Income | 21,270.00 | 52,033.00 | 30,763.00 |

| | | Year to Date | Budget | Available Balance |
|--------------|--|--------------------|----------------------|--------------------------|
| 2360 2370 | Other Conference Refunds Conference Donations | 0.00 0.00 | 0.00 1,000.00 | 0.00 1,000.00 |
| | TOTAL CONFERENCE INCOME | 347,387.00 | 525,318.00 | 177,931.00 |
| PUBL | ICATIONS INCOME | | | |
| 2440 | Labels Non-College | 985.68 | 0.00 | (985.68) |
| 2460 | Labels College | 0.00 | 0.00 | 0.00 |
| 2470 | Books Non-College | 0.00 | 0.00 | 0.00 |
| | TOTAL PUBLICATIONS INCOME | 985.68 | 0.00 | (985.68) |
| FOUN | DATION INCOME | | | |
| 2700 | General Development | 14,698.19 | 17,600.00 | 2,901.81 |
| 2701 | MMF Earnings | 0.00 | 0.00 | 0.00 |
| 2702 | Investment Income | 3,077.14 | 9,793.00 | 6,715.86 |
| 2703 | Invest. Unrealized Gain/Loss | 72,279.14 | 0.00 | (72,279.14) |
| 2704 | Marketing Promotions | 0.00 | 0.00 | 0.00 |
| 2705 | Beyond Crossroads | 0.00 | 0.00 | 0.00 |
| 2706 | Endowment Investment Income | 0.00 | 13,723.00 | 13,723.00 |
| 2707 2708 | Student Math League | 360.00 4,068.00 | 100.00 | (260.00) (1,568.00) |
| 2708 | Student Research League Regional Scholarship | 1,804.00 | 2,500.00 0.00 | (1,308.00) (1,804.00) |
| 2709 | AMATYC Project ACCCESS | 5,004.00 | 5,000.00 | (1,804.00) (4.00) |
| 2710 | DataFest | 1,000.00 | 0.00 | (1,000.00) |
| 2715 | Developmental Mathematics | 20.00 | 0.00 | (1,000.00) |
| 2713 | Standards | 135.00 | 100.00 | (35.00) |
| 2720 | Grants | 351.00 | 300.00 | (51.00) |
| 2721 | Adjunct Conference Grant | 411.00 | 0.00 | (411.00) |
| 2722 | Presidential Student Scholar | 0.00 | 0.00 | 0.00 |
| 2723 | Leila & Simon Peskoff Award | 2,050.00 | 1,960.00 | (90.00) |
| 2725 | Research in Mathematics | 110.00 | 300.00 | 190.00 |
| 2726 | Margie Hobbs Award | 1,411.00 | 1,000.00 | (411.00) |
| 2730 | Endowment | 7,604.40 | 0.00 | (7,604.40) |
| 2731 | W Garner Pres Scholar Endow | 600.00 | 0.00 | (600.00) |
| 2732 | W Garner Memorial GP Endowment | 0.00 | 0.00 | 0.00 |
| | TOTAL FOUNDATION INCOME | 114,982.87 | 52,376.00 | (62,606.87) |
| | TOTAL INCOME | 1,379,941.44 | 922,576.00 | (457,365.44) |
| COS | TS AND EXPENSES | | | |
| GENE | RAL OFFICE EXPENSES | | | |
| 3030 | Clerical & Casual Labor | 0.00 | 0.00 | 0.00 |
| 3032 | Clerical/Reassigned-President | 21,657.00 | 15,000.00 | (6,657.00) |
| 3033 | Clerical/Reassigned-Pres-Elect | 0.00 | 6,000.00 | 6,000.00 |
| 3034 | Clerical/Reassigned-Past Presi | 3,000.00 | 6,000.00 | 3,000.00 |
| 3035 | Contract Labor | 85,431.68 | 83,069.00 | (2,362.68) |
| 3036 | Staff Development | 0.00 | 7,000.00 | 7,000.00 |
| 3037 | Executive Director Salary | 27,000.00 | 27,000.00 | 0.00 |
| 3038 3040 | Executive Director - Travel Reassigned Time - Treasurer | 6,197.89 0.00 | 7,000.00 3,000.00 | 802.11 3,000.00 |
| 3040 | Accounting Expense | 7,000.00 | 8,000.00 | 1,000.00 |
| 3065 | Servicemark Fee | 0.00 | 0.00 | 0.00 |
| 3070 | Consulting Fees | 0.00 | 0.00 | 0.00 |
| 3080 | Investment Fee | 0.00 | 0.00 | 0.00 |
| 3090 | Postage & Delivery | 846.57 | 950.00 | 103.43 |
| 3110 | Telephone | 0.00 | 2,160.00 | 2,160.00 |
| 3130 | Transportation | 0.00 | 150.00 | 150.00 |
| 3150 | Stationery & Forms | 122.88 | 1,100.00 | 977.12 |
| 3170 | Office Supplies | 1,564.22 | 2,650.00 | 1,085.78 |
| 3190 | Duplication | 0.73 | 400.00 | 399.27 |
| 3200 | Membership Services | 0.00 | 1,000.00 | 1,000.00 |
| 3205 | Payroll Taxes | 2,065.56 | 3,000.00 | 934.44 |
| 3206 | Payroll Preparation Charges | 1,809.00 | 1,464.00 | (345.00) |
| 3210 | Bank Service Charge | 70.00 | 100.00 | 30.00 |
| 3212 | Credit Card Services | 6,601.87 | 7,740.00 | 1,138.13 |
| 3215 | Miscellaneous Service Charges | 182.35 | 200.00 | 17.65 |
| 3220 | Returned Checks | 0.00 | 100.00 | 100.00 |
| 3230 | Library & Subscriptions | 0.00 | 100.00 | 100.00 |
| 3260 | Computer Soft, Hard &Supplies | 1,443.74 | 3,500.00 | 2,056.26 |

| | | Year to Date | Budget | Available Balance |
|--------------|---|-----------------------|-----------------------|------------------------|
| 3275 | Bad Debt Expense | 0.00 | 0.00 | 0.00 |
| 3280 | Depreciation Expense | 1,312.45 | 3,500.00 | 2,187.55 |
| 3320 | Licensing Fees | 260.00 | 500.00 | 240.00 |
| 3360 | Other General Office | 134.23 | 300.00 | 165.77 |
| 3365 | Online Database | 14,430.63 | 13,032.00 | (1,398.63) |
| 3370 | Software Annual Fees | 4,214.00 | 4,695.00 | 481.00 |
| 3380 | Computer Ins/Security | 0.00 | 0.00 | 0.00 |
| 3382 | Gen Liability Insurance | 10,669.00 | 12,000.00 | 1,331.00 |
| 3383 | Workers Compensation Insurance | 1,399.81 | 500.00 | (899.81) |
| 3385 | STCC Admin. Services | 10,000.00 | 10,000.00 | 0.00 |
| 3390 | Washington Office Space | 0.00 | 0.00 | 0.00 |
| 3395 3400 | Awards (Plaques) | 956.00 0.00 | 1,300.00 0.00 | 344.00 0.00 |
| 3400 | Postage - STCC Duplication - STCC | 0.00 | 0.00 | 0.00 |
| 3403 | Telephone - STCC | 0.00 | 0.00 | 0.00 |
| 3415 | Rent Expense - STCC | 10,000.00 | 10,000.00 | 0.00 |
| | TOTAL GENERAL OFFICE EXPENSE | 218,369.61 | 242,510.00 | 24,140.39 |
| | UAL CONFERENCE | | | |
| | RAL CONF. PLANNING | | | |
| 3440 | Advance Planning Visit | 2,463.24 | 3,500.00 | 1,036.76 |
| 3482 | Site Selection Visits | 0.00 | 0.00 | 0.00 |
| 3520 | Telephone | 0.00 | 0.00 | 0.00 |
| 3530 | Postage | 0.00 | 50.00 | 50.00 |
| 3535 | Duplication | 0.00 | 50.00 | 50.00 |
| 3540 | Supplies | 0.00 | 300.00 | 300.00 |
| 3550 | Conference Marketing | 728.48 | 750.00 | 21.52 |
| 3555 | Conference Logo Design | 375.00 | 375.00 | 0.00 |
| 3560 3570 | Program/Presider Meeting Exhibit Marketing | 4,325.20 0.00 | 2,400.00 5,500.00 | (1,925.20) 5,500.00 |
| 3575 | Conference Enhancements | 0.00 | 0.00 | 0.00 |
| 3580 | Conference Coordinator | 0.00 | 2,000.00 | 2,000.00 |
| 3595 | Conf. Planning Portion of SBM | 0.00 | 0.00 | 0.00 |
| | TOTAL GEN CONF PLANNING EXPENSE | 7,891.92 | 14,925.00 | 7,033.08 |
| | CONFERENCE EVENT Credit Card Services | 15 404 25 | 18.060.00 | 2 (55 (5 |
| 3665 3670 | Conference Insurance | 15,404.35 2,057.22 | 18,060.00 2,000.00 | 2,655.65 (57.22) |
| 3680 | Supplies | 561.99 | 1,000.00 | 438.01 |
| 3700 | Postage & Delivery | 70.26 | 75.00 | 4.74 |
| 3705 | Office Shipping | 2,699.08 | 3,000.00 | 300.92 |
| 3720 | Duplication | 0.00 | 400.00 | 400.00 |
| 3730 | Conference Reassigned Time | 15,000.00 | 18,000.00 | 3,000.00 |
| 3740 | Transportation | 21,450.21 | 27,000.00 | 5,549.79 |
| 3745 | Anets | 0.00 | 0.00 | 0.00 |
| 3750 | Clerical and Casual Labor | 0.00 | 500.00 | 500.00 |
| 3760 | Contract Labor (Conference) | 158,474.65 | 154,270.00 | (4,204.65) |
| 3780 | Program Advertising | 0.00 | 0.00 | 0.00 |
| 3800 | Lodging | 16,972.63 | 30,343.00 | 13,370.37 |
| 3840 | Food | 1,090.00 | 6,150.00 | 5,060.00 |
| 3845 | Telephone (Board/Staff) | 0.00 | 200.00 | 200.00 |
| 3860 | Friday Food Event | 29,840.84 | 46,575.00 | 16,734.16 |
| 3900 | Saturday Breakfast | 28,413.39 | 45,000.00 | 16,586.61 |
| 3905 | Leadership Dinner | 4,232.07 | 4,500.00 | 267.93 |
| 3910 | Local Emphasis ACCCESS Food | 2,950.00 | 3,000.00 | 50.00 |
| 3915 3960 | Accelss Food Affiliate Pres Luncheon | 0.00 2,655.31 | 0.00 3,300.00 | 0.00 644.69 |
| 3965 | Other Food & Refreshments | 0.00 | 1,500.00 | 1,500.00 |
| 3903 | | | | |
| | TOTAL GEN CONF EVENT EXPENSE | 301,872.00 | 364,873.00 | 63,001.00 |
| CONF | ERENCE PUBLICATIONS | | | |
| 4030 | Advertising/Exhibitor Folder | 0.00 | 250.00 | 250.00 |
| 4040 | Dec Flyer - Printing | 475.00 | 700.00 | 225.00 |
| 4050 | Dec Flyer - Postage | 997.29 | 1,400.00 | 402.71 |
| 4060 | Miniprograms - Printing | 389.00 | 700.00 | 311.00 |
| 4070 | Postage for Miniprogram | 936.56 | 1,400.00 | 463.44 |
| 4080 | Conference Programs | 0.00 | 1,500.00 | 1,500.00 |
| 4085 | Conference Daily Update | 0.00 | 0.00 | 0.00 |

| 4000 April Flyer's Pontage 641.75 1.300.00 931.400 4007 April Flyer's Pontage 641.75 1.600.00 958.32 TOTAL CONF PUBLICATIONS EXPENSE 4.425.60 8.850.00 4.422.40 ON-SITE EXPENSES 3.507.00 4.300.00 990.00 4100 Speaker Fees/Horomeria 3.577.00 4.300.00 1.1577.00 4100 Subside Comports Rental 6.7073.85 700.00.00 2.492.53 4120 Computer Standi Access 8.500.75 100.000.00 3.401.93 4120 Registration Access 8.500.75 100.000.00 7.294.63 4120 Registration Access 1.1671.03 1.1000.00 7.024.74 4200 Other Rentals 0.00 0.00 2.550.00 43010 Security Guarks 1.165.00 4.202.00 0.00.00 43010 Security Guarks 1.297.04 1.200.00 1.235.70 4310 Security Guarks 1.297.54 1.200.00 10.255.80 4310 Security Guarks <th></th> <th></th> <th>Year to Date</th> <th>Budget</th> <th>Available Balance</th> | | | Year to Date | Budget | Available Balance |
|---|-------|------------------------------------|---------------------------------------|---------------------------------------|----------------------|
| ON-SITE ENPENSES | | | | | |
| 4100 Speaker Fees/Honoraria 3,530.00 4,200.00 800.00 4120 Conference Space 13,577.00 0.00 (1,377.00) 4120 Conference Space 13,577.00 0.000 (1,992.25) 4120 Conference Space 85.900.75 10,000.00 1,499.25 4131 Conference May 0.00 0.00 0.00 4200 Other Retails 0.00 0.00 0.00 4200 Registration Materials 1,277.04 2,000.00 72.96 4200 Registration Materials 1,277.04 2,000.00 2,385.00 4200 Registration Materials 1,377.00 4,1100.00 (2,71.4) 4200 Registration Reception 0.00 7.900 2,355.00 4300 Prof. Conf. Planning Org. 11,576.82 9.000.00 (2,355.80) 4315 Appreciation Reception 0.00 7.900 (2,558.81) 4300 Dispitality 2,950.65 1,200.00 (1,253.55) 4600 Expitality< | | TOTAL CONF PUBLICATIONS EXPENSE | 4,425.60 | 8,850.00 | 4,424.40 |
| 4420 Canderence Space 13.577.00 0.00 (13.577.00) 4160 Audio Visual/Computer Retail 67.073.85 70.000.00 1,499.25 4165 Internet - Registration 538.50 40.000.00 3,461.50 4200 Other Retails 0.00 0.00 0.00 4210 Registration Materials 11,671.43 11,000.00 (67.143.20) 4210 Registration Materials 11,472.01 3,149.20 0.000 4220 Conference App 11,470.00 4.000.00 2.250.00 4300 Registration Workers (Temps) 11,470.00 4.000.00 2.250.00 4301 Scentry Gunts 11,550.00 9.700.00 (2.250.00) 4301 Scentry Gunts 13.77.45 1.500.00 (2.250.00) 4300 Exhibitor's Refreshments 1.376.45 1.500.00 (1.255.40) 4400 Exhibitor's Refreshments 1.376.45 1.500.00 (2.251.48) 4501 Photography 9.89.75 1.000.00 (2.261.48) | ON-SI | ITE EXPENSES | | | |
| 4160 Audio Visual/Computer Rental 67.073.85 70.000.00 1.292.51 4162 Computer Stanil Access 8.300.75 10.000.00 1.499.25 4162 Computer Stanil Access 8.300.75 10.000.00 1.499.25 4200 Other Reatisla 0.00 0.00 0.00 4200 Other Rentals 1.297.04 2.000.00 702.96 4210 Registration Materials 1.297.04 2.000.00 72.50.00 4220 Conference App 3.149.20 3.149.20 0.00 72.50.00 4310 Prof. Conf. Flaming Org. 11.556.52 9.000.00 2.255.82 4310 Prof. Conf. Flaming Org. 11.556.52 9.000.00 2.256.82 4310 Materialis 1.290.00 1.200.00 0.00.00 4310 Materialis 1.290.00 1.200.00 0.00.00 4310 Materialis 1.290.00 1.200.00 1.255.02 4310 Appreciation Reception 1.000.00 0.000 0.00 43 | 4100 | Speaker Fees/Honoraria | | | 800.00 |
| 4162 Computers/Enail Access 8,500.75 10,000.00 1.499.25 4165 Internet-Registration 538.50 4,000.00 3,641.50 4200 Other Rentals 0.00 0.00 0.00 4200 Registration Materials 1,270.40 2,000.00 (771.43) 4200 Registration Materials 1,470.00 4,000.00 2,253.00 4200 Registration Workers (Temps) 1,470.00 4,000.00 2,255.00 4310 Prof. Conf. Haming Org. 11,556.82 9,000.00 (2,058.81) 4315 Appreciation Reception 0.00 750.00 (1,255.68) 4400 Dispropria 0.00 0.00 (300.00) 4500 Hospitality 2,950.65 1,200.00 (1,255.57) 4600 Expenses 13,461.20 (1,1756.65) (1,000.00) (2,314.8) 4600 Shuide Bas, Trans, & Parking 0.00 0.00 0.00 (1,000.47) 4700 Asama Expenses 13,361.91 7,900.00 2,569.81 | | | · · · · · · · · · · · · · · · · · · · | | , |
| 14165 Interine - Registration 538.50 4,000.00 3,461.50 1200 Other Rentals 1,297.04 2,000.00 702.96 14200 Conference App 3,149.20 3,149.20 0,000 702.96 14200 Conference App 3,149.20 3,149.20 0,000 627.143 14200 Security Guards 1,155.00 4,000.00 2,253.00 14310 Prof. Conf. Flaming Org. 1,155.62 9,000.00 (2,256.82) 14310 Prof. Conf. Flaming Org. 1,500.00 1,200.00 (2,356.82) 14400 Prof. Prof. Prof. Prof. 1,900.00 1,200.00 (2,541.48) 14400 Prof. | | | | · · | · · |
| 4200 Other Rentals 0.00 0.00 0.00 4240 Registration Materials 1.277.04 2.000.00 672.96 4250 Conference App 3.149.20 3.149.20 0.00 4280 Registration Materials 1.165.01 4.000.00 2.333.00 4300 Security Guards 1.165.00 4.000.00 2.333.00 4315 Appreciation Reception 0.00 750.00 750.00 4315 Appreciation Reception 0.00 0.00 0.00 4300 Security Guards 1.376.45 1.500.00 10.25 4500 Sproposia 0.00 0.00 0.00 12.25 4610 Exposition Services 2.754.14 2.500.00 12.25 4620 Bhuftle Bas, Trans, & Parking 0.00 0.00 0.00 0.00 4720 Mard Tappenses 1.376.45 1.500.00 12.25 163.022.11 160.249.20 (3.072.91) 4700 Award Tappenses 5.30.19 7.900.00 <td< td=""><td></td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td></td></td<> | | | · · · · · · · · · · · · · · · · · · · | | |
| 4240 Registration Materials 1.277.04 2.000.00 702.96 4250 Registration Equipment 11.671.143 11.000.00 (671.43) 4260 Conference App 3.149.20 3.149.20 0.000 4280 Registration Workers (Temps) 1.470.00 4.000.00 2.233.00 4310 Prof. Conf. Planning Org. 11.555.82 9.000.00 (2.355.82) 4315 Appreciation Reception 0.00 7.500.00 750.00 4320 Other Labor 1.500.00 1.200.00 (300.00) 4500 Symposia 0.00 0.00 0.00 1.750.65 4500 Dispition Services 2.7541.48 2.500.00 16.25.55 4600 Exposition Services 134.00 2.500.00 16.60 4740 Bayr Sition Services 0.00 0.00 0.00 4700 Chart Planning 0.00 0.00 0.00 4700 Distributor's Refreshments 1.376.45 1.500.00 1.500.55 4700 | | | | , | |
| 4250 Registration Equipment 11,671.43 11,000.00 (671,43) 4260 Conference App 3,149.20 0,000 4280 0,000.00 2,330.00 4300 Security Guards 1,165.00 4,000.00 2,333.00 4310 Prof. Conf. Planning Org. 11,556.82 9,000.00 (2,556.82) 4315 Appreciation Reception 0.00 750.00 750.00 4300 Security Guards 0.00 0.00 0.00 4500 Other Labor 1,500.00 123.55 4600 Exploritor's Kerteshments 1,376.45 1,500.00 123.55 4640 Exposition Services 27.541.48 2000.00 0.01.25 4640 Expenses 134.00 20.000 10.60 4740 Name Expenses 0.00 0.00 0.00 4740 Main Expenses 0.00 0.00 0.00 4750 Mine Store Expenses 0.00 0.00 0.00 4760 Main Store Expenses 0.00 </td <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| 4260 Conference App 3.149.20 3.149.20 0.000 4280 Registration Worker (Temps) 1.470.00 4.000.00 2.350.00 4310 PotC. Conf. Planning Org. 11.555.82 9.000.00 (2.355.82) 4315 Appreciation Reception 0.00 750.00 750.00 4320 Other Labor 1.500.00 1.200.00 (300.00) 4320 Other Labor 1.500.00 1.200.00 (0.1750.65) 4400 Exhibitor's Refreshments 1.376.45 1.500.00 1.23.55 4610 Exposition Services 27.541.48 25.000.00 (2.541.48) 4660 Shuttle Bus, Trans, & Parking 0.00 0.00 0.00 4700 Mard Expenses 134.00 25.000 116.00 4710 Signaphysics 0.00 0.00 0.00 4700 Harding Posters 0.00 0.00 0.00 4700 TOTAL ON-SITE EXPENSES 163.322.11 160.249.20 (3.072.91) TOTAL ANNUAL CONF EXPENSE | | | · | <i>,</i> | |
| 4300 Security Guards 1.165.00 4.000.00 2.835.00 4310 Prof. Conf. Planning Org. 1.155.682 9.000.00 (2.556.82) 4312 Other Labor 1.500.00 1.200.00 (300.00) 4300 Ward Expension 0.00 0.00 (0.00,00) 4500 Symposia 0.00 0.00 (0.00,00) 4500 Exhibitor's Refreshments 1.376.45 1.500.00 (1.750.65) 4640 Exposition Services 27.541.48 2500.00 (0.251.45) 4660 Shuttle Bus, Trans, & Parking 0.00 0.00 0.00 0.00 4740 Expenses 0.00 0.00 0.00 0.00 4740 TOTAL ON-SITE EXPENSES 163.322.11 160.249.20 (3.072.91) TOTAL ANNUAL CONF EXPENSE 4075.11.63 548.897.20 71.385.57 STRATEGIC PLANNING/ORIENTATION 0.00 0.00 0.00 0.00 4940 Transportation 0.00 0.00 0.00 0.00 0.00 | | Conference App | 3,149.20 | 3,149.20 | 0.00 |
| 4310 Prof. Conf. Planning Org. 11.556.82 9.000.00 (2.556.82) 4315 Appreciation Reception 0.00 750.00 750.00 4300 Other Labor 1.500.00 1.200.00 (2000.00) 4500 Explosition's References 2.376.45 1.200.00 (1.750.65) 4600 Explosition's References 2.754.148 25000.00 (2.541.48) 4601 Exposition Services 2.754.148 25000.00 (2.541.48) 4780 Other Conf Expenses 0.00 0.00 0.00 4780 Other Conf Expenses 0.301 0.000 0.00 4780 Other Conf Expense 5.330.19 7.900.00 2.569.81 4700 TOTAL ON-SITE EXPENSES 163.322.11 160.249.20 (3.072.91) TOTAL ON-SITE EXPENSES 163.322.11 160.249.20 (3.072.91) TOTAL ON-SITE EXPENSES 163.322.11 160.249.20 (3.072.91) TOTAL ON-SITE EXPENSE 0.00 0.00 0.00 9400 Transportation <t< td=""><td></td><td></td><td></td><td></td><td></td></t<> | | | | | |
| 4315 Appreciation Reception 0.00 750.00 (750.00) 4320 Other Labor 1.500.00 1.200.00 (300.00) 4500 Symposia 0.00 0.00 0.00 4500 Depinality 2.950.65 1.200.00 (1.750.65) 4600 Exhibitor's Refreshments 1.376.45 1.500.00 (1.253.46) 4640 Exposition Services 27.541.48 25.000.00 0.00 0.00 4660 Stuttle Bus, Trans, & Parking 0.00 0.00 0.00 0.00 4740 Sign-Posters 0.00 0.00 0.00 0.00 4780 Other Conf Expenses 0.00 0.00 0.00 0.00 4780 Other Conf Expenses 163,322.11 160,249.20 (3,072.91) TOTAL ON-SITE EXPENSES 163,322.11 160,249.20 71,385.57 STRATEGIC PLANNING/ORIENTATION 700.00 0.00 0.00 0.00 4940 Transportation 0.00 0.00 0.00 0.00 < | | | | | |
| 4320 Other Labor 1,500,00 1,200,00 (300,00) 4500 Symposia 0,00 0,00 0,00 4500 Explositivity 2,950,65 1,200,00 (1,750,65) 400 Explosition's Reriessments 1,376,45 1,500,00 123,55 4400 Explosition Services 27,541,48 25,000,00 (2,541,48) 4500 Symposition Services 134,00 250,000 (2,64,48) 4700 Avard Expenses 134,00 250,000 0,00 4780 Oher Conf Expenses 0,00 0,00 0,00 4780 Oher Conf Expense 5,330,19 7,900,00 2,569,81 4700 TOTAL ON-SITE EXPENSES 163,322,11 160,249,20 (3,072,91) TOTAL ON-SITE EXPENSES 163,322,11 160,249,20 (3,072,91) TOTAL ON-SITE EXPENSE 477,511,63 548,897,20 71,385,57 STRATEGIC PLANNING/ORIENTATION 0,00 0,00 0,00 4940 Transportation 0,00 0,00 | | | · | | , |
| 4500 Symposia 0.00 0.00 0.00 4500 Hespitality 2,950.65 1,200.00 (1,750.65) 4600 Expisition Services 2,7541.48 25,000.00 (1,253.65) 4600 Exposition Services 27,541.48 25,000.00 (2,541.48) 4600 Shutle Bus, Trans, & Parking 0.00 0.00 0.00 4700 Award Expenses 134.00 250.00 116.00 4740 SignsPosters 0.00 0.00 0.00 4780 Other Conf Expenses 0.00 0.00 0.00 4780 Other Conf Expenses 163,322.11 160,249.20 (3,072.91) TOTAL ON-SITE EXPENSES 163,322.11 160,249.20 (3,072.91) TOTAL ANNUAL CONF EXPENSE 477,511.63 548,897.20 71,385.57 STRATEGIC PLANNING/ORIENTATION 440 Transportation 0.00 0.00 0.00 4940 Transportation 0.00 0.00 0.00 0.00 0.00 0.00 0.00 < | | | | | |
| 4540 Hospitality 2,950.65 1,200.00 (1.750.65) 4600 Exhibitor's Refreshments 1,376.45 1,500.00 10.25.55 4600 Exhibitor's Refreshments 1,376.45 1,500.00 10.25.55 4610 Exposition Services 27,511.48 25,000.00 (2,541.48) 4660 Shuttle Bus, Trans, & Parking 0.00 0.00 0.00 0.00 4700 Award Expenses 134,00 250.00 116.00 0.00 0.00 4780 Other Corl Expense 5,330.19 7,900.00 2,569.81 71,385.57 STRATEGIC PLANNING/ORIENTATION 4940 TRANPORTATION 0.00 0.00 0.00 4940 Transportation 0.00 0.00 0.00 0.00 4940 Transportation 0.00 0.00 0.00 0.00 4940 Transportation 0.00 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 0.00 5040 | | | | | · · · · · |
| 4600 Exhibitor's Refreshments 1,376.45 1,500.00 123.55 4620 Photography 989.75 1,000.00 10.25 4640 Exposition Services 27,541.48 25,000.00 (2,541.48) 4660 Shuttle Bus, Trans, & Parking 0.00 250.00 116.00 4700 Award Expenses 0.00 0.00 0.00 4780 Other Corf Expenses 0.00 0.00 0.00 4780 Other Corf Expenses 163,322.11 160,249.20 (3,072.91) TOTAL ON-SITE EXPENSES 163,322.11 160,249.20 (3,072.91) TOTAL ANNUAL CONF EXPENSE 477,511.63 548,897.20 71,385.57 STRATEGIC PLANNING/ORIENTATION | | | | | |
| 4460 Exposition Services 27.541.48 25,000.00 (2.541.48) 4660 Shuttle Bus, Trans, & Parking 0.00 0.00 0.00 4700 Award Expenses 134.00 250.00 116.00 4740 Signs/Posters 0.00 0.00 0.00 4740 Other Conf Expenses 0.00 0.00 0.00 4780 Other Conf Expenses 163.322.11 160.249.20 (3.072.91) TOTAL ON-SITE EXPENSES 163.322.11 160.249.20 (3.072.91) TOTAL ANNUAL CONF EXPENSE 477,511.63 548,897.20 71.385.57 STRATEGIC PLANNING/ORIENTATION 0.00 0.00 0.00 0.00 4960 Lodging 0.00 0.00 0.00 0.00 4960 Origing 0.00 0.00 0.00 0.00 4960 Origing 0.00 0.00 0.00 0.00 4960 Origing 0.00 0.00 0.00 0.00 5040 Transportation 0.00 <td>4600</td> <td></td> <td>1,376.45</td> <td>1,500.00</td> <td> ,</td> | 4600 | | 1,376.45 | 1,500.00 | , |
| 4660 Shuftle Bus, Trans, & Parking 0.00 0.00 0.00 4700 Award Expenses 134.00 250.00 116.00 4700 Award Expenses 0.00 0.00 0.00 4705 Online Store Expenses 0.00 0.00 0.00 4780 Other Conf Expenses 163,322.11 160,249.20 (3,072.91) TOTAL ON-SITE EXPENSES 163,322.11 160,249.20 (3,072.91) TOTAL ON-SITE EXPENSE 477,511.63 548,897.20 71,385.57 STRATEGIC PLANNING/ORIENTATION 9400 7maportation 0.00 0.00 0.00 9400 Transportation 0.00 0.00 0.00 0.00 9400 Food 0.00 0.00 0.00 0.00 9400 Transportation 0.00 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 5180 E | 4620 | | | 1,000.00 | |
| 4700 Award Expenses 134.00 250.00 116.00 4740 SignsPosters 0.00 0.00 0.00 4780 Other Conf Expenses 0.00 0.00 0.00 4780 Other Conf Expenses 0.00 5,330.19 7,900.00 2,569.81 TOTAL ON-SITE EXPENSES 163,322.11 160,249.20 (3,072.91) TOTAL ANNUAL CONF EXPENSE 477,511.63 548,897.20 71,385.57 STRATEGIC PLANNING/ORIENTATION 4940 10.00 0.00 0.00 4960 Lodging 0.00 0.00 0.00 4960 Lodging 0.00 0.00 0.00 4900 Other SPOM 0.00 0.00 0.00 TOTAL SPO MEETING EXPENSE 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 5120 Other SOM 0.00 0.00 0.00 0.00 5182 Design 0.00 0.00 0.00 0.00 0.00 | | | | · · · · · · · · · · · · · · · · · · · | , |
| 4740 Signs/Posters 0.00 0.00 0.00 4765 Online Store Expenses 0.00 0.00 0.00 4780 Other Conf Expense 5,330.19 7,900.00 2,569.81 TOTAL ON-SITE EXPENSES 163,322.11 160,249.20 (3,072.91) TOTAL ANNUAL CONF EXPENSE 477,511.63 548,897.20 71,385.57 STRATEGIC PLANNUA/CORIENTATION 4940 7ransportation 0.00 0.00 0.00 4940 Transportation 0.00 0.00 0.00 0.00 0.00 4990 Other SPOM 0.00 0.00 0.00 0.00 0.00 4990 Other SPOM 0.00 0.00 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 0.00 0.00 5080 Food 0.00 0.00 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | | | | | |
| 4765 Online Store Expenses 0.00 0.00 0.00 4780 Other Conf Expense 5,330.19 7,900.00 2,569.81 TOTAL ON-SITE EXPENSES 163,322.11 160,249.20 (3,072.91) TOTAL ANNUAL CONF EXPENSE 477,511.63 548,897.20 71,385.57 STRATEGIC PLANNING/ORIENTATION 0.00 0.00 0.00 4940 Transportation 0.00 0.00 0.00 4960 Lodging 0.00 0.00 0.00 4960 Lodging 0.00 0.00 0.00 4970 Other SPOM 0.00 0.00 0.00 4980 Food 0.00 0.00 0.00 70TAL SPO MEETING EXPENSE 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 5060 Lodging 0.00 0.00 0.00 5120 Other SOM 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 | | | | | |
| 4780 Other Conf Expense 5,330.19 7,900.00 2,569.81 TOTAL ON-SITE EXPENSES 163,322.11 160,249.20 (3,072.91) TOTAL ANNUAL CONF EXPENSE 477,511.63 548,897.20 71,385.57 STRATEGIC PLANNING/ORIENTATION 4940 Transportation 0.00 0.00 0.00 4940 Transportation 0.00 0.00 0.00 0.00 4950 Food 0.00 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 0.00 5080 Food 0.00 0.00 0.00 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0 | | | | | |
| TOTAL ANNUAL CONF EXPENSE 477,511.63 548,897.20 71,385.57 STRATEGIC PLANNING/ORIENTATION 0.00 0.00 0.00 0.00 4940 Transportation 0.00 0.00 0.00 0.00 4960 Lodging 0.00 0.00 0.00 0.00 4990 Other SPOM 0.00 0.00 0.00 0.00 TOTAL SPO MEETING EXPENSE 0.00 0.00 0.00 0.00 SPRING OFFICERS' MEETING 0.00 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 0.00 5060 Lodging 0.00 0.00 0.00 0.00 5120 Other SOM 0.00 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 5182 Design 0.00 0.00 0.00 0.00 5182 | | | | | |
| STRATEGIC PLANNING/ORIENTATION 0.00 0.00 0.00 4940 Transportation 0.00 0.00 0.00 4960 Lodging 0.00 0.00 0.00 4980 Food 0.00 0.00 0.00 4990 Other SPOM 0.00 0.00 0.00 TOTAL SPO MEETING EXPENSE 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 5060 0.00 0.00 0.00 0.00 5061 0.00 0.00 0.00 0.00 5060 0.00 0.00 0.00 0.00 5080 Food 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 5182 Design 0.00 0.00 0.00 5182 Design 0.00 0.00 0.00 5220 Shipping | | TOTAL ON-SITE EXPENSES | 163,322.11 | 160,249.20 | (3,072.91) |
| 4940 Transportation 0.00 0.00 0.00 4960 Lodging 0.00 0.00 0.00 4980 Food 0.00 0.00 0.00 4990 Other SPOM 0.00 0.00 0.00 TOTAL SPO MEETING EXPENSE 0.00 0.00 0.00 SPRING OFFICERS' MEETING 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 5120 Other SOM 0.00 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 320.00 320.00 320.00 320.00 320.00 320.00 5182 Design 0.00 0.00 0.00 320.00 520.00 (6.4 | | TOTAL ANNUAL CONF EXPENSE | 477,511.63 | 548,897.20 | 71,385.57 |
| 4960 Lodging 0.00 0.00 0.00 4980 Food 0.00 0.00 0.00 4990 Other SPOM 0.00 0.00 0.00 TOTAL SPO MEETING EXPENSE 0.00 0.00 0.00 SPRING OFFICERS' MEETING 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 5060 Lodging 0.00 0.00 0.00 5080 Food 0.00 0.00 0.00 5120 Other SOM 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 320.00 320.00 5180 Edit 0.00 320.00 320.00 5181 Edit 0.00 0.00 0.00 5200 Printing 24,477.62 18,000.00 (6,477.62) 5220 | STRA | TEGIC PLANNING/ORIENTATION | | | |
| 4980 Food 0.00 0.00 0.00 4990 Other SPOM 0.00 0.00 0.00 TOTAL SPO MEETING EXPENSE 0.00 0.00 0.00 0.00 SPRING OFFICERS' MEETING 0.00 0.00 0.00 0.00 Sold Transportation 0.00 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 0.00 5060 Lodging 0.00 0.00 0.00 0.00 5120 Other SOM 0.00 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 <td>4940</td> <td>Transportation</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> | 4940 | Transportation | 0.00 | 0.00 | 0.00 |
| 4990 Other SPOM 0.00 0.00 0.00 TOTAL SPO MEETING EXPENSE 0.00 0.00 0.00 0.00 SPRING OFFICERS' MEETING 0.00 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 0.00 5060 0.00 0.00 0.00 0.00 0.00 5080 Food 0.00 0.00 0.00 0.00 5120 Other SOM 0.00 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 0.00 5180 Edit 0.00 320.00 320.00 320.00 5185 5180 Edit 0.00 0.00 0.00 0.00 500 0.00 0.00 0.00 0.00 5200 Printing 24,477.62 18,000.00 (6,587.57) 5230 Shipping 7,429.95 7,000.00 (4 | | | | | |
| TOTAL SPO MEETING EXPENSE 0.00 0.00 0.00 SPRING OFFICERS' MEETING 0.00 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 0.00 5080 Food 0.00 0.00 0.00 0.00 0.00 5120 Other SOM 0.00 0.00 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 0.00 PUBLICATIONS THE MathAMATYC EDUCATOR 5180 Edit 0.00 0.00 0.00 0.00 5180 Edit 0.00 | | | | | |
| SPRING OFFICERS' MEETING 0.00 0.00 0.00 5040 Transportation 0.00 0.00 0.00 5060 Food 0.00 0.00 0.00 5080 Food 0.00 0.00 0.00 5120 Other SOM 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 PUBLICATIONS THE MathAMATYC EDUCATOR 5180 Edit 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 0.00 5182 Design 0.00 0.00 0.00 0.00 5183 Reassigned Time 0.00 0.00 0.00 0.00 5200 Printing 24,477.62 18,000.00 (6,477.62) 5220 Shipping 7,429.95 7,000.00 (429.95) TOTAL EDUCATOR EXPENSES 31,907.57 25,320.00 (6,587.57) 5230 Simping 6,643.00 12,000.00 5,357.00 5,357.00 | 4990 | Other SPOM | 0.00 | 0.00 | 0.00 |
| 5040 Transportation 0.00 0.00 0.00 5060 Lodging 0.00 0.00 0.00 5080 Food 0.00 0.00 0.00 5120 Other SOM 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 PUBLICATIONS THE MathAMATYC EDUCATOR 5180 Edit 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 520 Shipping 24,477.62 18,000.00 (6,477.62) 5220 5200 Printing 7,429.95 7,000.00 (429.95) 7000.00 (429.95) TOTAL EDUCATOR EXPENSES 31,907.57 25,320.00 (6,587.57) 5280 Edit & Design 0.00 0.00 5,357.00 5,357.00 5,357.00 5,357.00 | | TOTAL SPO MEETING EXPENSE | 0.00 | 0.00 | 0.00 |
| 5060 Lodging 0.00 0.00 0.00 5080 Food 0.00 0.00 0.00 5120 Other SOM 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 PUBLICATIONS THE MathAMATYC EDUCATOR 320.00 320.00 320.00 5180 Edit 0.00 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 5180 Reassigned Time 0.00 0.00 0.00 0.00 5200 Printing 24,477.62 18,000.00 (6,477.62) 5220 Shipping 7,429.95 7,000.00 (429.95) TOTAL EDUCATOR EXPENSES 31,907.57 25,320.00 (6,587.57) THE NEWSLETTER 0.00 0.00 0.00 5,357.00 5340 Other Newsletter 0.00 0.00 98.58 | SPRIN | IG OFFICERS' MEETING | | | |
| 5080 Food 0.00 0.00 0.00 5120 Other SOM 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 PUBLICATIONS THE MathAMATYC EDUCATOR 5180 Edit 0.00 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 0.00 5180 Edit 0.00 0.00 0.00 0.00 0.00 5182 Design 0.00 0.00 0.00 0.00 0.00 5200 Printing 24,477.62 18,000.00 (6,477.62) 5,220.00 (429.95) TOTAL EDUCATOR EXPENSES 31,907.57 25,320.00 (6,587.57) THE NEWSLETTER 0.00 0.00 0.00 5,357.00 5340 Cher Newsletter 0.00 0.00 98.58 5340 Other Newsletter 0.00 0. | | Transportation | | | |
| 5120 Other SOM 0.00 0.00 0.00 TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 0.00 0.00 PUBLICATIONS THE MathAMATYC EDUCATOR 320.00 0.00 < | | 6 6 | | | |
| TOTAL SPRING OFFICERS' MTG EXPENSE 0.00 0.00 PUBLICATIONS THE MathAMATYC EDUCATOR 5180 Edit 0.00 320.00 320.00 520.00 5.357.00 0.00 5.357.00 98.58 5.340 0.00 0.00 0.00 0.00 98.58 5.340 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | | | | | |
| PUBLICATIONS THE MathAMATYC EDUCATOR 5180 Edit 60.00 0.00 5185 Reassigned Time 0.00 0.00 5200 Printing 24,477.62 18,000.00 5220 Shipping 7,429.95 7,000.00 (429.95) 7,000.00 70TAL EDUCATOR EXPENSES 31,907.57 25,320.00 (6,587.57) THE NEWSLETTER 0.00 5320 Edit & Design 5320 Shipping 4,901.42 5,000.00 5340 Other Newsletter 0.00 0.00 | 5120 | | | | |
| THE MathAMATYC EDUCATOR 5180 Edit0.00320.00320.00 5182 Design0.000.000.00 5185 Reassigned Time0.000.000.00 5200 Printing24,477.6218,000.00(6,477.62) 5220 Shipping7,429.957,000.00(429.95)TOTAL EDUCATOR EXPENSES $31,907.57$ 25,320.00(6,587.57)THE NEWSLETTER 5280 Edit & Design0.000.005,357.00 5320 Shipping4,901.425,000.0098.58 5340 Other Newsletter0.000.000.00 | | TOTAL SPRING OFFICERS' MTG EXPENSE | 0.00 | 0.00 | 0.00 |
| 5180Edit0.00 320.00 320.00 5182 Design0.000.000.00 5185 Reassigned Time0.000.000.00 5200 Printing $24,477.62$ $18,000.00$ $(6,477.62)$ 5220 Shipping $7,429.95$ $7,000.00$ (429.95) TOTAL EDUCATOR EXPENSES $31,907.57$ $25,320.00$ $(6,587.57)$ THE NEWSLETTER 5280 Edit & Design 0.00 0.00 0.00 5300 Printing $6,643.00$ $12,000.00$ $5,357.00$ 5320 Shipping $4,901.42$ $5,000.00$ 98.58 5340 Other Newsletter 0.00 0.00 0.00 | PUBI | LICATIONS | | | |
| 5182 Design 0.00 0.00 0.00 5185 Reassigned Time 0.00 0.00 0.00 5200 Printing 24,477.62 18,000.00 (6,477.62) 5220 Shipping 7,429.95 7,000.00 (429.95) TOTAL EDUCATOR EXPENSES 31,907.57 25,320.00 (6,587.57) THE NEWSLETTER 0.00 0.00 0.00 5300 Printing 6,643.00 12,000.00 5,357.00 5320 Shipping 4,901.42 5,000.00 98.58 5340 Other Newsletter 0.00 0.00 0.00 | | | | | |
| 5185 Reassigned Time 0.00 0.00 0.00 5200 Printing 24,477.62 18,000.00 (6,477.62) 5220 Shipping 7,429.95 7,000.00 (429.95) TOTAL EDUCATOR EXPENSES 31,907.57 25,320.00 (6,587.57) THE NEWSLETTER 0.00 0.00 0.00 5200 Frinting 0.00 0.00 0.00 5300 Printing 6,643.00 12,000.00 5,357.00 5320 Shipping 4,901.42 5,000.00 98.58 5340 Other Newsletter 0.00 0.00 0.00 | | | | | |
| 5200 Printing 24,477.62 18,000.00 (6,477.62) 5220 Shipping 7,429.95 7,000.00 (429.95) TOTAL EDUCATOR EXPENSES 31,907.57 25,320.00 (6,587.57) THE NEWSLETTER 0.00 0.00 0.00 5300 Printing 6,643.00 12,000.00 5,357.00 5320 Shipping 4,901.42 5,000.00 98.58 5340 Other Newsletter 0.00 0.00 0.00 | | | | | |
| 5220 Shipping 7,429.95 7,000.00 (429.95) TOTAL EDUCATOR EXPENSES 31,907.57 25,320.00 (6,587.57) THE NEWSLETTER 0.00 0.00 0.00 5280 Edit & Design 0.00 0.00 0.00 5300 Printing 6,643.00 12,000.00 5,357.00 5320 Shipping 4,901.42 5,000.00 98.58 5340 Other Newsletter 0.00 0.00 0.00 | | | | | |
| THE NEWSLETTER 0.00 0.00 0.00 5280 Edit & Design 0.00 0.00 0.00 5300 Printing 6,643.00 12,000.00 5,357.00 5320 Shipping 4,901.42 5,000.00 98.58 5340 Other Newsletter 0.00 0.00 0.00 | | 6 | , | | () |
| 5280Edit & Design0.000.000.005300Printing6,643.0012,000.005,357.005320Shipping4,901.425,000.0098.585340Other Newsletter0.000.000.00 | | TOTAL EDUCATOR EXPENSES | 31,907.57 | 25,320.00 | (6,587.57) |
| 5280Edit & Design0.000.000.005300Printing6,643.0012,000.005,357.005320Shipping4,901.425,000.0098.585340Other Newsletter0.000.000.00 | THE N | IEWSLETTER | | | |
| 5320 Shipping 4,901.42 5,000.00 98.58 5340 Other Newsletter 0.00 0.00 0.00 | 5280 | Edit & Design | | | |
| 5340 Other Newsletter 0.00 0.00 0.00 | | | | | |
| TOTAL NEWSLETTER EXPENSES 11,544.42 17,000.00 5,455.58 | | 11 0 | | | |
| | | TOTAL NEWSLETTER EXPENSES | 11,544.42 | 17,000.00 | 5,455.58 |

| | | Year to Date | Budget | Available Balance |
|--------------|---|------------------|--------------------|---|
| 5380 | Edit & Design | 0.00 | 0.00 | 0.00 |
| | Printing | 0.00 | 0.00 | 0.00 |
| 5420 | Shipping | 0.00 | 0.00 | 0.00 |
| 5440 | Other | 0.00 | 0.00 | 0.00 |
| | TOTAL OTHER PUBLICATIONS EXPENSE | 0.00 | 0.00 | 0.00 |
| | TOTAL PUBLICATIONS EXPENSE | 43,451.99 | 42,320.00 | (1,131.99) |
| BEYON | ND CROSSROADS | | | |
| | Postage | 0.00 | 0.00 | 0.00 |
| | Duplication | 0.00 | 0.00 | 0.00 |
| | Travel | 0.00 | 0.00 | 0.00 |
| | Prizes | 0.00 | 0.00 | 0.00 |
| | AV Equipment Rental Preparation of CD | 0.00 0.00 | 0.00 0.00 | $\begin{array}{c} 0.00\\ 0.00\end{array}$ |
| | TOTAL BEYOND CROSSROADS | 0.00 | 0.00 | 0.00 |
| COMM | | | | |
| | IITTEES & SUMMER INSTITUTE Developmental Mathematics | 0.00 | 0.00 | 0.00 |
| | Teacher Preparation | 0.00 | 0.00 | 0.00 |
| | Mathematic Intensive/Coll Math | 0.00 | 0.00 | 0.00 |
| | Math and Its Applic for Career | 0.00 | 0.00 | 0.00 |
| | Innovative Teaching & Learning | 0.00 | 0.00 | 0.00 |
| | Emerging Issues | 0.00 | 0.00 | 0.00 |
| 5497 | Statistics | 0.00 | 0.00 | 0.00 |
| | RMETYC Committee | 0.00 | 0.00 | 0.00 |
| | Equity | 0.00 | 0.00 | 0.00 |
| | Nominating/Election | 0.00 | 0.00 | 0.00 |
| | Foundation/Developmental Math | 0.00 | 0.00 | 0.00 |
| | Technology in Math Education Web Site Coordinator | 0.00 | 0.00 | 0.00 |
| | Webinars | 0.00 100.00 | 250.00 1,000.00 | 250.00 900.00 |
| | Equal Opportunity in Math | 0.00 | 0.00 | 0.00 |
| | Tech Mathematics/AAS Program | 0.00 | 0.00 | 0.00 |
| | Professional Dev. Coordinator | 0.00 | 200.00 | 200.00 |
| | Membership Committee | 0.00 | 500.00 | 500.00 |
| 5620 | Constitution Committee | 0.00 | 0.00 | 0.00 |
| | ME Awards | 0.00 | 100.00 | 100.00 |
| | TE Awards | 92.00 | 0.00 | (92.00) |
| | Placement and Assessment | 0.00 | 0.00 | 0.00 |
| | Grants Committee | 0.00 | 0.00 | 0.00 |
| | Crossroads Digital | 0.00 | 0.00 | 0.00 |
| | Student Math League Student Math League Awards | 0.00 1,748.00 | 0.00 2,000.00 | 0.00 252.00 |
| 5685 5687 | Student Research League Awards | 2,818.50 | 5,000.00 | 2,181.50 |
| | Regional Meetings | 0.00 | 0.00 | 0.00 |
| | Summer Institute | 0.00 | 0.00 | 0.00 |
| | Traveling Workshops | 0.00 | 0.00 | 0.00 |
| 5710 | AMATYC History Grant Seed Fund | 0.00 0.00 | 0.00 0.00 | $0.00 \\ 0.00$ |
| | | | | |
| | TOTAL COMM & SUMM/INST EXPENSE | 4,758.50 | 9,050.00 | 4,291.50 |
| LIAISO | DN | | | |
| | AACC Dues | 0.00 | 0.00 | 0.00 |
| | AACC Exhibit & Materials | 0.00 | 0.00 | 0.00 |
| | AACC Travel | 0.00 | 0.00 | 0.00 |
| | AMC | 0.00 | 0.00 | 0.00 |
| | Presidential Travel CBMS | 0.00 | 0.00 | 0.00 |
| | CSSP | 4,356.20 0.00 | 3,900.00 0.00 | (456.20) 0.00 |
| | Triangle Coalition | 0.00 | 0.00 | 0.00 |
| | MAA | 1,671.08 | 1,200.00 | (471.08) |
| | NOSS | 2,041.90 | 960.00 | (1,081.90) |
| | Joint Committee for Women | 0.00 | 0.00 | 0.00 |
| | TODOS | 2,046.48 | 800.00 | (1,246.48) |
| | NCTM | 3,892.26 | 2,100.00 | (1,792.26) |
| 0000 | | | - | |
| | Mu Alpha Theta Liaison Travel | 0.00 | 750.00 | 750.00 |

| | | Year to Date | Budget | Available Balance |
|---------------|---|---|---|---|
| 5900 | Affiliate Org Grants | 0.00 | 0.00 | 0.00 |
| 5905 | Affiliate Scholarships | 0.00 | 0.00 | 0.00 |
| 5910 | Affiliate Services | 689.71 | 1,000.00 | 310.29 |
| 5915 | Affiliate Give-aways | 1,088.29 | 9,000.00 | 7,911.71 |
| 5918 | Student Scholarship | 0.00 | 0.00 | 0.00 |
| 5920 5930 | State/Reg Affiliates National Init./Com. Relations | 5,675.15 1,148.48 | 10,000.00 2,500.00 | 4,324.85 1,351.52 |
| 5930 5940 | Other Liaison | 2,244.67 | 2,500.00 | 255.33 |
| | TOTAL LIAISON EXPENSES | 24,854.22 | 34,710.00 | 9,855.78 |
| GRAN | IT INDIRECT COST | | | |
| 5980 | Indirect Cost | (9,330.41) | (6,000.00) | 3,330.41 |
| | TOTAL GRANT INDIRECT COST EXPENSE | (9,330.41) | (6,000.00) | 3,330.41 |
| IMPA | | | | |
| 6100 | IMPACT | 0.00 | 0.00 | 0.00 |
| | TOTAL IMPACT EXPENSE | 0.00 | 0.00 | 0.00 |
| | FRANT - PROJECT SLOPE | | | |
| 6210 | Senior Personnel Salaries | 0.00 | 0.00 | 0.00 |
| 6220 | Other Personnel Salaries | $\begin{array}{c} 0.00\\ 0.00\end{array}$ | 0.00 | 0.00 |
| 6250 6260 | Travel Participant Support | 0.00 | $\begin{array}{c} 0.00\\ 0.00\end{array}$ | $\begin{array}{c} 0.00\\ 0.00\end{array}$ |
| 6271 | Materials and Supplies | 0.00 | 0.00 | 0.00 |
| 6272 | Publication/Dissemination | 0.00 | 0.00 | 0.00 |
| 6273 | Consultant Services | 0.00 | 0.00 | 0.00 |
| 6274 | Computer Services | 0.00 | 0.00 | 0.00 |
| 6275 | Subawards | 0.00 | 0.00 | 0.00 |
| 6276 | Other | 0.00 | 0.00 | 0.00 |
| 6280 | Indirect Cost | 0.00 | 0.00 | 0.00 |
| | TOTAL PROJECT SLOPE EXPENSES | 0.00 | 0.00 | 0.00 |
| NSF 0 6310 | Grant - TfP Senior Personnel Salaries | 50,825.55 | 0.00 | (50,825.55) |
| 6315 | Salaries & Wages | 0.00 | 0.00 | (30,823.33) |
| 6320 | Other Personnel Salaries | 2,000.00 | 0.00 | (2,000.00) |
| 6330 | Fringe Benefits | 0.00 | 0.00 | 0.00 |
| 6340 | Equipment | 0.00 | 0.00 | 0.00 |
| 6345 | Consultants | 0.00 | 0.00 | 0.00 |
| 6350 | Travel | 21,775.65 | 0.00 | (21,775.65) |
| 6360 | Participant Support | 0.00 | 0.00 | 0.00 |
| 6365 | Other | 0.00 | 0.00 | 0.00 |
| 6370 6371 | Travel (Master Account) Materials and Supplies | 0.00 1,478.95 | $\begin{array}{c} 0.00\\ 0.00\end{array}$ | 0.00 (1,478.95) |
| 6372 | Publication/Dissemination | 200.87 | 0.00 | (1,478.93) (200.87) |
| 6373 | Consultant Services | 1,600.00 | 0.00 | (1,600.00) |
| 6374 | Computer Services | 4,738.02 | 0.00 | (4,738.02) |
| 6375 | Subawards | 385,935.05 | 0.00 | (385,935.05) |
| 6376 6380 | Other Indirect Costs | 653.38 8,261.91 | $\begin{array}{c} 0.00\\ 0.00\end{array}$ | (653.38) (8,261.91) |
| | TOTAL TfP EXPENSES | 477,469.38 | 0.00 | (477,469.38) |
| NSE G | RANT - ACCESSIBILITY | | | |
| 6400 | Duplication | 0.00 | 0.00 | 0.00 |
| 6405 | Salaries/Honoraria | 0.00 | 0.00 | 0.00 |
| 6410 | Senior Personnel Salaries | 0.00 | 0.00 | 0.00 |
| 6415 | Duplication | 0.00 | 0.00 | 0.00 |
| 6420 | Other Personnel Salaries | 1,000.00 | 0.00 | (1,000.00) |
| 6425 | Postage & Delivery | 0.00 | 0.00 | 0.00 |
| 6430 | Fringe Benefits | 0.00 | 0.00 | 0.00 |
| 6435 | Transportation | 0.00 | 0.00 | 0.00 |
| 6440 6445 | Equipment | 0.00 | 0.00 | 0.00 |
| 6445 6450 | Food Travel | 0.00 7,724.64 | $\begin{array}{c} 0.00\\ 0.00\end{array}$ | 0.00 (7,724.64) |
| 6450 6455 | Rental | 7,724.64 0.00 | 0.00 | (7,724.64) 0.00 |
| 0400 | Nentul | 0.00 | 0.00 | 0.00 |

| 6400 Participant Support 21,877.20 0.00 (547).20 6471 Materials and Supplies 561.69 0.00 (561.69) 6472 Consult Services 9.250.00 0.00 (27.20) 6480 Indirect Cost 10.250 0.00 (10.250) 6480 Indirect Cost 10.250 0.00 (10.000) TOTAL ACCESSIBILITY EXPENSES 40.449.03 0.00 (00.00) 0.00 6505 Salaries/Honoraria 0.00 0.00 0.00 0.00 610 Computer Supplies 0.00 0.00 0.00 0.00 6310 Computer Supplies 0.00 0.00 0.00 0.00 6335 Transportation 0.00 0.00 0.00 0.00 6340 Daptication 0.00 0.00 0.00 0.00 6355 Transportation 0.00 0.00 0.00 0.00 6356 Comportation 0.00 0.00 0.00 0.00 | | | Year to Date | Budget | Available Balance |
|--|-------|------------------------------|--------------|--------|----------------------|
| 6472 Publication/Dissemination 0.00 0.00 0.00 6473 Consultar Services 0.00 0.00 0.00 6474 Consultar Services 0.00 0.00 0.00 6476 Other 142.50 0.00 (142.50) 6480 Indirect Cost 100.00 0.00 (100.00) 70TAL ACCESSIBLITY EXPENSES 40.449.03 0.00 (40.449.03) AMATYC PRODECT ACCESS 0.00 0.00 0.00 6510 Subirise Honoration 0.00 0.00 0.00 6510 Computer Supplies 0.00 0.00 0.00 6531 Colging 9.913.65 0.00 0.00 0.00 6532 Supplies 0.00 0.00 0.00 0.00 0.00 0.00 6533 Tetaphone 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 < | 6460 | Participant Support | 21,870.20 | 0.00 | (21,870.20) |
| 6473 Consultant Services 9.250.00 0.00 0.250.00 6474 Computer Services 0.00 102.50 0.00 (102.00) 6480 Indiret Cost 100.00 0.00 (102.00) (102.00) TOTAL ACCESSIBILITY EXPENSES 40.449.03 0.00 (40.49.03) AMATYC PROJECT ACCETSS 0.00 0.00 0.00 0.00 6505 Salaries Houcarata 0.00 0.00 0.00 6510 Salaries Houcarata 0.00 0.00 0.00 6510 Salaries Houcarata 0.00 0.00 0.00 6510 Salaries Houcarata 0.00 0.00 0.00 6515 Forsing Space 0.00 0.00 0.00 6.00 6515 Forsing Space 0.00 0.00 0.00 6.00 6516 Forsing Space 0.00 0.00 0.00 0.00 70TAL ACCCESS EXPENSES 12.922.00 0.00 0.00 0.00 6510 CAINS | 6471 | Materials and Supplies | 361.69 | 0.00 | (361.69) |
| 6474 Computer Services 0.00 <td>6472</td> <td>Publication/Dissemination</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> | 6472 | Publication/Dissemination | 0.00 | 0.00 | 0.00 |
| 6476 142.50 0.00 (142.50) 6480 Indiret Cor 100.00 0.00 (100.00) TOTAL ACCESSIBILITY EXPENSES 40.449.03 0.00 (40.490.3) AMATYC PROJECT ACCCESS 600 0.00 0.00 0.00 6505 Salaries-Honoraria 0.00 0.00 0.00 6510 Compute Supplies 0.00 0.00 0.00 6515 Dubication 0.00 0.00 0.00 6535 Replane 3.00 0.00 0.00 6535 Replane 3.00 0.00 0.00 6536 Other 0.00 0.00 0.00 6537 Replane 3.00 0.00 0.00 0.00 6536 Other 0.00 0.00 0.00 0.00 70TAL ACCCESS EXPENSES 12.922.00 0.00 0.00 0.00 70TAL ACCCESS EXPENSES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 6473 | Consultant Services | 9,250.00 | 0.00 | |
| 6480 Indirect Cost 100.00 0.00 (100.00) TOTAL ACCESSIBILITY EXPENSES 40,449.03 0.00 (40,449.03) AMATYC PROJECT ACCCESS 0.00 0.00 0.00 6505 Salarise Monormia 0.00 0.00 0.00 6515 Danies Monormia 0.00 0.00 0.00 6525 Salarise Monormia 0.00 0.00 0.00 6530 Salarise Monormia 0.00 0.00 0.00 6531 Delphation 0.00 0.00 0.00 6532 Decking Space 3.008.04 0.00 0.00 6530 Meching Space 12.922.00 0.00 (12.922.00) FOIECT GAINS 0.00 0.00 0.00 0.00 6530 Mechineship 0.00 0.00 0.00 6531 ToTAL ACCESS EXPENSES 12.922.00 0.00 0.00 70TAL ACCCESS EXPENSES 0.00 0.00 0.00 0.00 6530 Recruing and Marketing <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| TOTAL ACCESSIBILITY EXPENSES 40,449.03 0.00 (40,449.03) AMATYC PROJECT ACCCESS 0.00 0.00 0.00 0.00 6505 Subaries/Honoraria 0.00 0.00 0.00 6510 Computer Supplies 0.00 0.00 0.00 6525 Supplies 0.00 0.00 0.00 6535 Transportation 0.00 0.00 0.00 6535 Transportation 0.00 0.00 0.00 6536 Telephone 0.00 0.00 0.00 6537 Telephone 0.00 0.00 0.00 6538 Meeting Space 0.00 0.00 0.00 6540 Telephone 0.00 0.00 0.00 6550 Other 0.00 0.00 0.00 0.00 6560 Other 0.00 0.00 0.00 0.00 6510 AMATYC Membenship 0.00 0.00 0.00 6510 AMATYC Membenship | | | | | · · · · · |
| AMATYC PROJECT ACCCESS 000 0.00 0.00 6505 Salarics/Homoratia 0.00 0.00 0.00 0510 Computer Supplies 0.00 0.00 0.00 6520 Supplies 0.00 0.00 0.00 0.00 6535 Dadiging 9.913.95 0.00 0.00 0.00 0.00 6535 Transportation 0.00 0.00 0.00 0.00 0.00 6536 Food 0.00 0.00 0.00 0.00 0.00 6537 Transportation 0.00 | 6480 | Indirect Cost | 100.00 | 0.00 | (100.00) |
| 6505 Salaries/Honoraria 0.00 0.00 0.00 6510 Computer Supplies 0.00 0.00 0.00 6520 Supplies 0.00 0.00 0.00 6531 Lodging 9.913.96 0.00 0.00 6535 Transportation 0.00 0.00 0.00 6535 Transportation 0.00 0.00 0.00 6535 Meeting Space 0.00 0.00 0.00 6550 Meeting Space 0.00 0.00 0.00 6500 Other 0.00 0.00 0.00 7OTAL ACCCESS EXPENSES 12.922.00 0.00 (12.922.00) PROJECT GAINS 0.00 0.00 0.00 0.00 6810 Cherial 0.00 0.00 0.00 6820 Recruiting and Marketing 0.00 0.00 0.00 6830 Scholarships 0.00 0.00 0.00 0.00 6930 Scholarships 0.00 | | TOTAL ACCESSIBILITY EXPENSES | 40,449.03 | 0.00 | (40,449.03) |
| 6310 Computer Supplies 0.00 0.00 0.00 6315 Duplication 0.00 0.00 0.00 6325 Postage & Delivery 0.00 0.00 0.00 6335 Transportation 0.00 0.00 0.00 6334 Transportation 0.00 0.00 0.00 6345 Foad 3.008.04 0.00 0.00 6555 Meeting Space 0.00 0.00 0.00 7DTAL ACCCESS EXPENSES 12.922.00 0.00 (12.922.00) PROUECT GAINS 0.00 0.00 0.00 0.00 6810< MAXI'V CMembership | | | | | |
| 6515 Duplication 0.00 0.00 0.00 6520 Supplies 0.00 0.00 0.00 6530 Lodging 9.913.96 0.00 0.00 6531 Lodging 9.913.96 0.00 0.00 6535 Transportation 0.00 0.00 0.00 6535 Ford 3.008.04 0.00 0.00 6536 Meeting Space 0.00 0.00 0.00 6550 Meeting Space 0.00 0.00 0.00 7OTAL ACCCESS EXPENSES 12.922.00 0.00 (12.922.00) PROJECT GAINS 6810 AMATYC Membership 0.00 0.00 0.00 6810 AMATYC Membership 0.00 | | | | | |
| 6529 Supplies 0.00 0.00 0.00 6525 Postage & Delivery 0.00 0.00 0.00 6535 Transportation 0.00 0.00 0.00 6545 Foad 3.008.04 0.00 0.00 6555 Foad 3.008.04 0.00 0.00 6556 Other 0.00 0.00 0.00 7OTAL ACCESS EXPENSES 12.922.00 0.00 (12.922.00) PROJECT GAINS 0.00 0.00 0.00 0.00 6810 AMATYC Membership 0.00 0.00 0.00 6810 AMATYC Membership 0.00 0.00 0.00 6830 Schelarships 0.00 0.00 0.00 6840 Clerical 0.00 0.00 0.00 6850 Scholarships 0.00 0.00 0.00 70TAL ACCESS RESEARCH 6 6 6 6 6 6 0 0.00 0.00 0.00 0.00 | | | | | |
| 6252 Posinge & Delivery 0.00 0.00 0.00 6530 Lodgrag 9.913.96 0.00 0.00 0.00 6531 Calgrag 9.013.96 0.00 0.00 0.00 6540 Telephone 0.00 0.00 0.00 6555 Meting Space 0.00 0.00 0.00 6550 Other 0.00 0.00 0.00 TOTAL ACCESS EXPENSES 12.922.00 0.00 (12.922.00) PROJECT GAINS 810 AMATYC Membership 0.00 0.00 0.00 6810 AMATYC Membership 0.00 0.00 0.00 0.00 6820 Recruining and Marketing 0.00 0.00 0.00 0.00 6810 Cherial 0.00 0.00 0.00 0.00 0.00 7OTAL ACCESS RESEARCH 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 | | | | | |
| 653 Lodging 9913.96 0.00 (9913.96) 653 Transportation 0.00 0.00 0.00 6545 Food 3.080.64 0.00 0.00 6555 Meeting Space 0.00 0.00 0.00 6550 Other 0.00 0.00 0.00 7OTAL ACCCESS EXPENSES 12.922.00 0.00 (12.922.00) PROJECT GAINS 0.00 0.00 0.00 0.00 6810 AMATYC Membership 0.00 0.00 0.00 6820 Rescription and Marketing 0.00 0.00 0.00 6810 Cricral 0.00 0.00 0.00 6810 Scholarships 0.00 0.00 0.00 TOTAL ACCESS EXPENSES 0.00 0.00 0.00 0.00 6810 Fercical 0.00 0.00 0.00 0.00 707AL ACCESS EXPENSES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | | | | | |
| 6535 Transportation 0.00 0.00 0.00 6540 Telephone 0.00 0.00 0.00 6550 Meting Space 0.00 0.00 0.00 6550 Meting Space 0.00 0.00 0.00 6560 Other 0.00 0.00 0.00 TOTAL ACCCESS EXPENSES 12.922.00 0.00 (12.922.00) PROJECT GAINS 0.00 0.00 0.00 0.00 6810 <mantv cmembership<="" td=""> 0.00 0.00 0.00 0.00 6810<ccess expenses<="" td=""> 0.00 0.00 0.00 0.00 6810<amatv cmembership<="" td=""> 0.00 0.00 0.00 0.00 6810<amatv cmerships<="" td=""> 0.00 0.00 0.00 0.00 6810<sholarships< td=""> 0.00 0.00 0.00 0.00 6810<sholarships< td=""> 0.00 0.00 0.00 0.00 70TAL ACCCESS EXPENSES 0.00 0.00 0.00 0.00 6810<sholarships< td=""> 0.00 0.0</sholarships<></sholarships<></sholarships<></amatv></amatv></ccess></mantv> | | | | | |
| 6545 Food 3,008,04 0,00 0,00 6555 Meeting Space 0,00 0,00 0,00 6550 Other 0,00 0,00 0,00 TOTAL ACCCESS EXPENSES 12,922,00 0,00 (12,922,00) PROJECT GAINS 6810 0,00 0,00 0,00 6810 AMATYC Membership 0,00 0,00 0,00 6820 Recruiting and Marketing 0,00 0,00 0,00 6830 Scholarships 0,00 0,00 0,00 7OTAL ACCCESS EXPENSES 0,00 0,00 0,00 0,00 7OTAL ACCCESS EXPENSES 0,00 0,00 0,00 0,00 7OTAL ACCCESS EXPENSES 0,00 0,00 0,00 0,00 0,00 920 Other Personnel Salaries 0,00 0,00 0,00 0,00 920 Other Personnel Salaries 0,00 0,00 0,00 0,00 921 Other Personnel Salaries 0,00 0,00 0,00 | | | | | · · · / |
| 6545 Food 3,008.04 0.00 (3,008.04) 6550 Menia Space 0.00 0.00 0.00 6550 Menia Space 0.00 0.00 0.00 7OTAL ACCCESS EXPENSES 12,922.00 0.00 (12,922.00) PROJECT GAINS 6810 AMATVC Membership 0.00 0.00 0.00 6810 AMATVC Membership 0.00 0.00 0.00 0.00 6810 Shoinships 0.00 0.00 0.00 0.00 7OTAL ACCCESS EXPENSES 0.00 0.00 0.00 0.00 6910 Senior Personnel Salaries 0.00 0.00 0.00 6910 Fuery Benefits 0.00 0.00 0.00 6950 Truvel 4.611.9 | | | | | |
| 6550 Meeting Space 0.00 0.00 0.00 6555 Renal 0.00 0.00 0.00 TOTAL ACCCESS EXPENSES 12,922.00 0.00 (12,922.00) PROJECT GAINS 0.00 0.00 0.00 0.00 6810 AMATYC Membership 0.00 0.00 0.00 6820 Recruiting and Marketing 0.00 0.00 0.00 6830 Stepend 0.00 0.00 0.00 6840 Clerical 0.00 0.00 0.00 6855 Scholarships 0.00 0.00 0.00 TOTAL ACCCESS EXPENSES 0.00 0.00 0.00 6920 Other Personnel Salaries 0.00 0.00 0.00 6920 Tavel 4.611.33 | | - | | | |
| 6555 Renal 0.00 0.00 0.00 0.00 TOTAL ACCCESS EXPENSES 12,922.00 0.00 (12,922.00) PROJECT GAINS 0.00 0.00 0.00 0.00 6810 AMATYC Membership 0.00 0.00 0.00 0.00 6840 Clerical 0.00 0.00 0.00 0.00 6850 Scholarships 0.00 0.00 0.00 0.00 TOTAL ACCESS EXPENSES 0.00 0.00 0.00 0.00 0.00 6910 Senior Personnel Salaries 0.00 0.00 0.00 0.00 6910 Farge Benefits 0.00 0.00 0.00 0.00 0.00 6971 Materials and Supplies 0.00 0.00 < | | | | | |
| 6560 Other 0.00 0.00 0.00 TOTAL ACCCESS EXPENSES 12,922.00 0.00 (12,922.00) PROJECT GAINS 0.00 0.00 0.00 0.00 6810 AMATYC Membership 0.00 0.00 0.00 0.00 6820 Recruiting and Marketing 0.00 0.00 0.00 0.00 6830 Stipend 0.00 0.00 0.00 0.00 6850 Scholarships 0.00 0.00 0.00 0.00 TOTAL ACCCESS RESEARCH 0.00 0.00 0.00 0.00 0.00 6910 Senior Personnel Salaries 0.00 0.00 0.00 0.00 6920 Personnel Salaries 0.00 0.00 0.00 0.00 6930 Fringe Benefits 0.00 0.00 0.00 0.00 0.00 6940 Leipiment 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | | | | | |
| PROJECT GAINS | | | | | |
| 6810 AMATYC Membership 0.00 0.00 0.00 6820 Recruiting and Marketing 0.00 0.00 0.00 6830 Stipend 0.00 0.00 0.00 6840 Clerical 0.00 0.00 0.00 6850 Scholarships 0.00 0.00 0.00 TOTAL ACCCESS RESEARCH 5 5 0.00 0.00 0.00 6910 Senior Personnel Salaries 0.00 0.00 0.00 0.00 6920 Other Personnel Salaries 0.00 0.00 0.00 0.00 6930 Fringe Benefits 0.00 0.00 0.00 0.00 6940 Equipment 0.00 0.00 0.00 0.00 6950 Travel 0.00 0.00 0.00 0.00 6971 Materials and Supplies 0.00 0.00 0.00 6972 Publication/Dissemination 0.00 0.00 0.00 6973 Consultant Service <t< td=""><td></td><td>TOTAL ACCCESS EXPENSES</td><td>12,922.00</td><td>0.00</td><td>(12,922.00)</td></t<> | | TOTAL ACCCESS EXPENSES | 12,922.00 | 0.00 | (12,922.00) |
| 6820 Recruiting and Marketing 0.00 0.00 0.00 6830 Stipend 0.00 0.00 0.00 6840 Clerical 0.00 0.00 0.00 6850 Scholarships 0.00 0.00 0.00 TOTAL ACCCESS EXPENSES 0.00 0.00 0.00 NSF GRANT - ACCCESS RESEARCH 6000 0.00 0.00 6920 Other Personnel Salaries 0.00 0.00 0.00 6930 Fringe Benefits 0.00 0.00 0.00 6940 Equipment 0.00 0.00 0.00 6950 Travel 4.611.93 0.00 0.00 6960 Participant Support 0.00 0.00 0.00 6971 Materials and Supples 0.00 0.00 0.00 6972 Publication/Dissemination 0.00 0.00 0.00 6973 Computer Services 0.00 0.00 0.00 6974 Computer Services 0.00 < | PROJI | ECT GAINS | | | |
| 6830 Stipend 0.00 0.00 0.00 6840 Clerical 0.00 0.00 0.00 RSD Scholarships 0.00 0.00 0.00 TOTAL ACCCESS EXPENSES 0.00 0.00 0.00 6810 Senior Personnel Salaries 0.00 0.00 0.00 6910 Senior Personnel Salaries 0.00 0.00 0.00 6930 Fringe Benefits 0.00 0.00 0.00 6940 Equipment 0.00 0.00 0.00 6950 Travel 4.611.93 0.00 (4.611.93) 6960 Participant Support 0.00 0.00 0.00 6971 Materials and Supplies 0.00 0.00 0.00 6972 Publication/Dissemination 0.00 0.00 0.00 6973 Consultant Services 0.00 0.00 0.00 6974 Computer Services 0.00 0.00 0.00 6975 Other 0.00 | 6810 | AMATYC Membership | 0.00 | 0.00 | 0.00 |
| 6840 Cierical 0.00 0.00 0.00 6850 Scholarships 0.00 0.00 0.00 TOTAL ACCCESS EXPENSES 0.00 0.00 0.00 NSF GRANT - ACCCESS RESEARCH 6910 0.00 0.00 0.00 6920 Other Personnel Salaries 0.00 0.00 0.00 6930 Fringe Benefits 0.00 0.00 0.00 6930 Fringe Benefits 0.00 0.00 0.00 6950 Travel 4.611.93 0.00 (4.611.93) 6960 Participant Support 0.00 0.00 0.00 6971 Materials and Supplies 0.00 0.00 0.00 6972 Publication/Dissemination 0.00 0.00 0.00 6973 Consultant Service 0.00 0.00 0.00 6974 Computer Services 0.00 0.00 0.00 6975 Other 0.00 0.00 0.00 6976 Other 0.00 | 6820 | | 0.00 | 0.00 | 0.00 |
| 6850 Scholarships 0.00 0.00 0.00 TOTAL ACCCESS EXPENSES 0.00 0.00 0.00 NSF GRANT - ACCCESS RESEARCH 0.00 0.00 0.00 6910 Senior Personnel Salaries 0.00 0.00 0.00 0920 Other Personnel Salaries 0.00 0.00 0.00 0930 Fringe Benefits 0.00 0.00 0.00 0940 Equipment 0.00 0.00 0.00 0950 Travel 4.611.93 0.00 0.00 0971 Materials and Supplies 0.00 0.00 0.00 0972 Publication/Dissemination 0.00 0.00 0.00 0973 Consultant Service 0.00 0.00 0.00 0975 Subawards 0.00 0.00 0.00 6976 Other 0.00 0.00 0.00 6975 Subawards 0.00 0.00 0.00 6976 Other 0.00 0.00 | 6830 | | 0.00 | 0.00 | 0.00 |
| TOTAL ACCCESS EXPENSES 0.00 0.00 0.00 NSF GRANT - ACCCESS RESEARCH 6910 Senior Personnel Salaries 0.00 0.00 0.00 6920 Other Personnel Salaries 0.00 0.00 0.00 0.00 6930 Fringe Benefits 0.00 0.00 0.00 0.00 6940 Equipment 0.00 0.00 0.00 0.00 6950 Travel 4.611.93 0.00 (4.611.93) 0.00 0.00 6971 Materials and Supples 0.00 0.00 0.00 0.00 6972 Publication/Dissemination 0.00 0.00 0.00 0.00 6973 Consultant Service 0.00 0.00 0.00 0.00 6974 Computer Services 0.00 0.00 0.00 6000 6975 Subawards 0.00 0.00 0.00 6000 6000 6976 Otter 968.50 0.00 0.00 6000 6000 6000 60 | | | | | |
| NSF GRANT - ACCCESS RESEARCH 6910 Senior Personnel Salaries 0.00 0.00 6920 Other Personnel Salaries 0.00 0.00 0.00 6930 Fringe Benefits 0.00 0.00 0.00 6940 Equipment 0.00 0.00 0.00 6950 Travel 4,611.93 0.00 (4,611.93) 6960 Participant Support 0.00 0.00 0.00 6971 Materials and Supplies 0.00 0.00 0.00 6972 Publication/Dissemination 0.00 0.00 0.00 0.00 6973 Consultant Service 0.00 0.00 0.00 0.00 6974 Computer Services 0.00 0.00 0.00 0.00 6975 Subawards 0.00 0.00 0.00 0.00 6975 Other 0.00 0.00 0.00 0.00 6976 Other 0.00 0.00 0.00 0.00 7010 | 6850 | Scholarships | 0.00 | 0.00 | 0.00 |
| 6910 Senior Personnel Salaries 0.00 0.00 0.00 6920 Other Personnel Salaries 0.00 0.00 0.00 6930 Fringe Benefits 0.00 0.00 0.00 6940 Equipment 0.00 0.00 0.00 6950 Travel 4,611.93 0.00 (4,611.93) 6960 Participant Support 0.00 0.00 0.00 6971 Materials and Supplies 0.00 0.00 0.00 6972 Publication/Dissemination 0.00 0.00 0.00 6973 Consultant Service 0.00 0.00 0.00 6974 Computer Services 0.00 0.00 0.00 6975 Subawards 0.00 0.00 0.00 6976 Other 0.00 0.00 0.00 6980 Indirect Cost 968.50 0.00 (5580.43) 7010 Clerical & Casual Labor 0.00 0.00 0.00 7011 Cler | | TOTAL ACCCESS EXPENSES | 0.00 | 0.00 | 0.00 |
| 6920 Other Personnel Salaries 0.00 0.00 0.00 6930 Fringe Benefits 0.00 0.00 0.00 6940 Equipment 0.00 0.00 0.00 6950 Travel 4,611.93 0.00 (4,611.93) 6960 Participant Support 0.00 0.00 0.00 6971 Materials and Supplies 0.00 0.00 0.00 6972 Publication/Dissemination 0.00 0.00 0.00 6973 Consultant Services 0.00 0.00 0.00 6974 Computer Services 0.00 0.00 0.00 6975 Subawards 0.00 0.00 0.00 6976 Other 0.00 0.00 0.00 6980 Indirect Cost 968.50 0.00 (968.50) 701A ACCCESS RESEARCH EXP 5,580.43 0.00 0.00 7010 Clerical & Casual Labor 0.00 0.00 0.00 7011 Clerical & Casual Labo | NSF C | GRANT - ACCCESS RESEARCH | | | |
| $\begin{array}{cccccc} 6930 & Fringe Benefits \\ 6930 & Fringe Benefits \\ 60,00 & 0,00 & 0,00 \\ 6940 & Equipment \\ 0,00 & 0,00 & 0,00 \\ 6950 & Travel \\ 4,611.93 & 0,00 & 0,00 \\ 6971 & Materials and Supplies \\ 0,00 & 0,00 & 0,00 \\ 6971 & Materials and Supplies \\ 0,00 & 0,00 & 0,00 \\ 6972 & Publication/Dissemination \\ 0,00 & 0,00 & 0,00 \\ 6973 & Consultant Service \\ 0,00 & 0,00 & 0,00 \\ 6975 & Subawards \\ 0,00 & 0,00 & 0,00 \\ 6975 & Subawards \\ 0,00 & 0,00 & 0,00 \\ 6976 & Other \\ 0,00 & 0,00 & 0,00 \\ 6980 & Indirect Cost \\ 968.50 & 0,00 & 0,00 \\ 6980 & Indirect Cost \\ 968.50 & 0,00 & 0,00 \\ 7010 & Clerical & Casual Labor \\ 0,00 & 0,00 & 0,00 \\ 7018 & Investment Fees \\ 0,00 & 0,00 & 0,00 \\ 7024 & Opportunity Projects \\ 5,061.36 & 4,500.00 \\ 7025 & Grants \\ 0,00 & 0,00 \\ 7030 & Duplication \\ 7030 & Duplication \\ 7040 & 100,00 \\ 7040 & 0,00 \\ 7040 & 0,00 \\ 7040 & 0,00 \\ 7040 & 0,00 \\ 7040 & 0,00 \\ 7040 & 0,00 \\ 7040 & 0,00 \\ 7040 & 100,00 \\ 7040 & 100,00 \\ 7040 & 0,00 \\ 7040 & 0,00 \\ 7040 & 0,00 \\ 7040 & 0,00 \\ 7040 & 0,00 \\ 7050 & Postage & Delivery \\ 7,40 & 100,00 \\ 7,40 \\ 7,40 & 100,00 \\ 7,500 \\ 7040 & 100,00 \\ 7,500 \\ 7040 & 100,00 \\ 7,500 \\ $ | 6910 | Senior Personnel Salaries | 0.00 | 0.00 | 0.00 |
| 6940 Equipment 0.00 0.00 0.00 0.00 6950 Travel 4,611.93 0.00 (4,611.93) 0.00 0.0 | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | |
| 6960 Participant Support 0.00 0.00 0.00 6971 Materials and Supplies 0.00 0.00 0.00 6972 Publication/Dissemination 0.00 0.00 0.00 6973 Consultant Service 0.00 0.00 0.00 6974 Computer Services 0.00 0.00 0.00 6975 Subawards 0.00 0.00 0.00 6976 Other 0.00 0.00 0.00 6978 Indirect Cost 968.50 0.00 (968.50) FOUNDATION EXPENSES GENERAL FOUNDATION (5,580.43) (5,580.43) 7010 Clerical & Casual Labor 0.00 0.00 0.00 7010 Clerical & Casual Labor 0.00 0.00 0.00 7020 Computer Supplies 0.00 0.00 0.00 7021 Clerical & Casual Labor 0.00 0.00 0.00 7020 Computer Supplies 0.00 0.00 0.00 7022 | | | | | |
| 6971 Materials and Supplies 0.00 0.00 0.00 6972 Publication/Dissemination 0.00 0.00 0.00 6973 Consultant Service 0.00 0.00 0.00 6974 Computer Services 0.00 0.00 0.00 6975 Subawards 0.00 0.00 0.00 6976 Other 0.00 0.00 0.00 6980 Indirect Cost 968.50 0.00 (5,580.43) TOTAL ACCCESS RESEARCH EXP 5,580.43 0.00 (5,580.43) FOUNDATION EXPENSES GENERAL FOUNDATION 1,000.00 1,000.00 0.00 7010 Clerical & Casual Labor 0.00 0.00 0.00 7010 Clerical & Casual Labor 0.00 0.00 0.00 7010 Clerical & Casual Labor 0.00 0.00 0.00 7020 Computer Supplies 0.00 0.00 0.00 7021 Clerical & Casual Labor 0.00 0.00 | | | | | , |
| 6972 Publication/Dissomination 0.00 0.00 0.00 6973 Consultant Service 0.00 0.00 0.00 6974 Computer Services 0.00 0.00 0.00 6975 Subawards 0.00 0.00 0.00 6976 Other 0.00 0.00 0.00 6980 Indirect Cost 968.50 0.00 (968.50) TOTAL ACCCESS RESEARCH EXP 5,580.43 0.00 (5,580.43) FOUNDATION EXPENSES GENERAL FOUNDATION 7010 Clerical & Casual Labor 0.00 0.00 0.00 7010 Clerical & Casual Labor 0.00 0.00 0.00 7010 Clerical & Casual Labor 0.00 0.00 0.00 7020 Computer Supplies 0.00 0.00 0.00 7021 Computer Supplies 5.061.36 4.500.00 (561.36) 7022 Grants 0.00 0.00 0.00 7030 Duplication 200 | | | | | |
| 6973 Consultant Service 0.00 0.00 0.00 6974 Computer Services 0.00 0.00 0.00 6975 Subawards 0.00 0.00 0.00 6976 Other 0.00 0.00 0.00 6980 Indirect Cost 968.50 0.00 (968.50) TOTAL ACCCESS RESEARCH EXP 5,580.43 0.00 (5,580.43) FOUNDATION EXPENSES GENERAL FOUNDATION 0.00 0.00 0.00 7010 Clerical & Casual Labor 0.00 0.00 0.00 7010 Clerical & Casual Labor 0.00 0.00 0.00 7011 Clerical & Casual Labor 0.00 0.00 0.00 7012 Computer Supplies 0.00 0.00 0.00 7024 Opportunity Projects 5,061.35 4,500.00 (551.36) 7025 Grants 0.00 0.00 0.00 7030 Duplication 200.00 200.00 0.00 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| 6974 Computer Services 0.00 0.00 0.00 6975 Subawards 0.00 0.00 0.00 6976 Other 0.00 0.00 0.00 6980 Indirect Cost 968.50 0.00 (968.50) TOTAL ACCCESS RESEARCH EXP 5,580.43 0.00 (5,580.43) FOUNDATION EXPENSES GENERAL FOUNDATION 7010 Clerical & Casual Labor 0.00 0.00 0.00 7018 Investment Fees 0.00 0.00 0.00 0.00 7024 Opportunity Projects 5,061.36 4,500.00 (51.36) 7025 Grants 0.00 0.00 0.00 7030 Duplication 200.00 200.00 0.00 7044 Donor Recognition 0.00 0.00 0.00 7045 Donor Recognition 0.00 0.00 0.00 7046 Telephone 0.00 0.00 0.00 7050 Postage & Delivery 7.40< | | | | | |
| 6975 Subawards 0.00 0.00 0.00 6976 Other 0.00 0.00 0.00 6980 Indirect Cost 968.50 0.00 (968.50) TOTAL ACCCESS RESEARCH EXP 5,580.43 0.00 (5,580.43) FOUNDATION EXPENSES GENERAL FOUNDATION 0.00 0.00 0.00 7010 Clerical & Casual Labor 0.00 0.00 0.00 7015 President Funds 1,000.00 1,000.00 0.00 7018 Investment Fees 0.00 0.00 0.00 7024 Opportunity Projects 5,061.36 4,500.00 (561.36) 7025 Grants 0.00 0.00 0.00 7030 Duplication 200.00 200.00 0.00 7045 Donor Recognition 0.00 0.00 150.00 7050 Postage & Delivery 7.40 100.00 92.60 7060 Telephone 0.00 0.00 0.00 | | | | | |
| 6976 Other 0.00 0.00 0.00 0.00 6980 Indirect Cost 968.50 0.00 (968.50) 0.00 (968.50) 0.00 (968.50) 0.00 (968.50) 0.00 (968.50) 0.00 (968.50) 0.00 (968.50) 0.00 (968.50) 0.00 (968.50) 0.00 (5,580.43) 0.00 (5,580.43) FOUNDATION EXPENSES GENERAL FOUNDATION 0.00 | | 1 | | | |
| 6980 Indirect Cost 968.50 0.00 (968.50) TOTAL ACCCESS RESEARCH EXP 5,580.43 0.00 (5,580.43) FOUNDATION EXPENSES GENERAL FOUNDATION 7010 Clerical & Casual Labor 0.00 0.00 0.00 7010 Clerical & Casual Labor 0.00 0.00 0.00 0.00 7018 Investment Fees 0.00 0.00 0.00 0.00 7020 Computer Supplies 0.00 0.00 0.00 0.00 7023 Grants 0.00 0.00 0.00 0.00 0.00 7030 Duplication 200.00 200.00 0.00 0.00 0.00 7045 Donor Recognition 0.00 0.00 0.00 7.40 100.00 92.60 7050 Postage & Delivery 7.40 100.00 92.60 7.60 7.60 0.00 0.00 7.00 7080 Lodging 0.00 0.00 0.00 7.00 7.90 7.90 7.90 | | | | | |
| FOUNDATION EXPENSES GENERAL FOUNDATION 7010 Clerical & Casual Labor 0.00 0.00 7015 President Funds 1,000.00 1,000.00 0.00 7018 Investment Fees 0.00 0.00 0.00 7020 Computer Supplies 0.00 0.00 0.00 7024 Opportunity Projects 5,061.36 4,500.00 (561.36) 7025 Grants 0.00 0.00 0.00 7030 Duplication 200.00 200.00 0.00 7045 Donor Recognition 0.00 0.00 150.00 7050 Postage & Delivery 7.40 100.00 92.60 7060 Telephone 0.00 0.00 0.00 7070 Transportation 0.00 0.00 0.00 7080 Lodging 0.00 0.00 0.00 7090 Food 0.00 0.00 0.00 | | | | | |
| GENERAL FOUNDATION 7010 Clerical & Casual Labor 0.00 0.00 7015 President Funds 1,000.00 1,000.00 7018 Investment Fees 0.00 0.00 7020 Computer Supplies 0.00 0.00 7024 Opportunity Projects 5,061.36 4,500.00 (561.36) 7025 Grants 0.00 0.00 0.00 7030 Duplication 200.00 200.00 0.00 7045 Donor Recognition 0.00 0.00 0.00 7050 Postage & Delivery 7.40 100.00 92.60 7060 Telephone 0.00 0.00 0.00 7080 Lodging 0.00 0.00 0.00 7080 Lodging 0.00 0.00 0.00 | | TOTAL ACCCESS RESEARCH EXP | 5,580.43 | 0.00 | (5,580.43) |
| 7010 Clerical & Casual Labor 0.00 0.00 0.00 7015 President Funds 1,000.00 1,000.00 0.00 7018 Investment Fees 0.00 0.00 0.00 7020 Computer Supplies 0.00 0.00 0.00 7024 Opportunity Projects 5,061.36 4,500.00 (561.36) 7025 Grants 0.00 0.00 0.00 7030 Duplication 200.00 200.00 0.00 7044 Supplies 0.00 150.00 150.00 7045 Donor Recognition 0.00 0.00 0.00 7050 Postage & Delivery 7.40 100.00 92.60 7060 Telephone 0.00 0.00 0.00 7080 Lodging 0.00 0.00 0.00 7080 Lodging 0.00 0.00 0.00 7090 Food 0.00 0.00 0.00 | | | | | |
| 7015 President Funds 1,000.00 0.00 7018 Investment Fees 0.00 0.00 7020 Computer Supplies 0.00 0.00 0.00 7024 Opportunity Projects 5,061.36 4,500.00 (561.36) 7025 Grants 0.00 0.00 0.00 7030 Duplication 200.00 200.00 0.00 7045 Donor Recognition 0.00 150.00 150.00 7050 Postage & Delivery 7.40 100.00 92.60 7060 Telephone 0.00 0.00 0.00 7080 Lodging 0.00 0.00 0.00 7080 Lodging 0.00 0.00 0.00 | | | 0.00 | 0.00 | 0.00 |
| 7018 Investment Fees 0.00 0.00 0.00 7020 Computer Supplies 0.00 0.00 0.00 7024 Opportunity Projects 5,061.36 4,500.00 (561.36) 7025 Grants 0.00 0.00 0.00 7030 Duplication 200.00 200.00 0.00 7044 Supplies 0.00 150.00 150.00 7040 Supplies 0.00 0.00 0.00 7045 Donor Recognition 0.00 0.00 0.00 7050 Postage & Delivery 7.40 100.00 92.60 7060 Telephone 0.00 0.00 0.00 7070 Transportation 0.00 0.00 0.00 7080 Lodging 0.00 0.00 0.00 7090 Food 0.00 0.00 0.00 | | | | | |
| 7020 Computer Supplies 0.00 0.00 0.00 7024 Opportunity Projects 5,061.36 4,500.00 (561.36) 7025 Grants 0.00 0.00 0.00 7030 Duplication 200.00 200.00 0.00 7040 Supplies 0.00 150.00 150.00 7045 Donor Recognition 0.00 0.00 0.00 7050 Postage & Delivery 7.40 100.00 92.60 7060 Telephone 0.00 0.00 0.00 7070 Transportation 0.00 0.00 0.00 7080 Lodging 0.00 0.00 0.00 | | | | , | |
| 7024 Opportunity Projects 5,061.36 4,500.00 (561.36) 7025 Grants 0.00 0.00 0.00 7030 Duplication 200.00 200.00 0.00 7040 Supplies 0.00 150.00 150.00 7045 Donor Recognition 0.00 0.00 0.00 7050 Postage & Delivery 7.40 100.00 92.60 7060 Telephone 0.00 0.00 0.00 7070 Transportation 0.00 0.00 0.00 7080 Lodging 0.00 0.00 0.00 7090 Food 0.00 0.00 0.00 | | | | | |
| 7025 Grants 0.00 0.00 0.00 7030 Duplication 200.00 200.00 0.00 7040 Supplies 0.00 150.00 150.00 7045 Donor Recognition 0.00 0.00 0.00 7050 Postage & Delivery 7.40 100.00 92.60 7060 Telephone 0.00 0.00 0.00 7070 Transportation 0.00 0.00 0.00 7080 Lodging 0.00 0.00 0.00 7090 Food 0.00 0.00 0.00 | | | | | |
| 7030Duplication200.00200.000.007040Supplies0.00150.00150.007045Donor Recognition0.000.000.007050Postage & Delivery7.40100.0092.607060Telephone0.000.000.007070Transportation0.000.000.007080Lodging0.000.000.007090Food0.000.000.00 | | | | | |
| 7040Supplies0.00150.00150.007045Donor Recognition0.000.000.007050Postage & Delivery7.40100.0092.607060Telephone0.000.000.007070Transportation0.000.000.007080Lodging0.000.000.007090Food0.000.000.00 | | | | | |
| 7045Donor Recognition0.000.000.007050Postage & Delivery7.40100.0092.607060Telephone0.000.000.007070Transportation0.000.000.007080Lodging0.000.000.007090Food0.000.000.00 | | | | | |
| 7050Postage & Delivery7.40100.0092.607060Telephone0.000.000.007070Transportation0.000.000.007080Lodging0.000.000.007090Food0.000.000.00 | | | | | |
| 7060 Telephone 0.00 0.00 0.00 7070 Transportation 0.00 0.00 0.00 7080 Lodging 0.00 0.00 0.00 7090 Food 0.00 0.00 0.00 | | | | | |
| 7070 Transportation 0.00 0.00 0.00 7080 Lodging 0.00 0.00 0.00 7090 Food 0.00 0.00 0.00 | | Telephone | | | |
| 7080 Lodging 0.00 0.00 0.00 7090 Food 0.00 0.00 0.00 | | | | | |
| 7090 Food 0.00 0.00 0.00 | | | | | |
| | | | | | |
| | | | | 500.00 | |

| | | Year to Date | Budget | Available Balance |
|-------|-----------------------------------|--------------|------------|----------------------|
| | TOTAL GENERAL FOUNDATION EXPENSES | 6,766.74 | 6,450.00 | (316.74) |
| BEVO | ND CROSSROADS | | | |
| 7110 | Labor and Stipends | 0.00 | 0.00 | 0.00 |
| 7130 | Duplication | 0.00 | 0.00 | 0.00 |
| 7140 | Supplies | 0.00 | 0.00 | 0.00 |
| 7150 | Postage & Delivery | 0.00 | 0.00 | 0.00 |
| 7155 | Publication / Dissemination | 0.00 | 0.00 | 0.00 |
| 7160 | Telephone | 0.00 | 0.00 | 0.00 |
| 7170 | Travel | 0.00 | 0.00 | 0.00 |
| 7180 | Lodging | 0.00 | 0.00 | 0.00 |
| 7190 | Food | 0.00 | 0.00 | 0.00 |
| 7190 | Other | 0.00 | 0.00 | 0.00 |
| /195 | Olici | 0.00 | 0.00 | 0.00 |
| | TOTAL BEYOND CROSSROADS EXPENSE | 0.00 | 0.00 | 0.00 |
| PROJE | ECT ACCCESS | | | |
| 7260 | Participant Support | 9,276.34 | 30,500.00 | 21,223.66 |
| 7271 | Materials & Supplies | 0.00 | 0.00 | 0.00 |
| 7272 | Publication/Dissemination | 0.00 | 0.00 | 0.00 |
| 7273 | Consultant Services | 0.00 | 0.00 | 0.00 |
| 7274 | Computer | 0.00 | 0.00 | 0.00 |
| 7275 | Subawards | 0.00 | 0.00 | 0.00 |
| 7276 | Other | 0.00 | 0.00 | 0.00 |
| | TOTAL PROJECT ACCCESS EXPENSE | 9,276.34 | 30,500.00 | 21,223.66 |
| OTHE | R FOUNDATION FUND EXPENSES | | | |
| 7310 | Student Math League | 262.00 | 700.00 | 438.00 |
| 7320 | Student Research League | 2,985.00 | 2,500.00 | (485.00) |
| 7325 | DataFest | 971.23 | 0.00 | (971.23) |
| 7410 | Summit | 0.00 | 0.00 | 0.00 |
| 7510 | Grants | 0.00 | 3,000.00 | 3,000.00 |
| 7605 | Regional Scholarship Program | 2,460.00 | 3,280.00 | 820.00 |
| 7610 | Presidential Student Scholarsh | 2,000.00 | 2,000.00 | 0.00 |
| 7710 | Leila & Simon Peskoff Award | 1,960.00 | 1,960.00 | 0.00 |
| 7810 | Margie Hobbs Award | 500.00 | 500.00 | 0.00 |
| | TOTAL OTHER FOUNDATION EXPENSE | 11,138.23 | 13,940.00 | 2,801.77 |
| | TOTAL FOUNDATION EXPENSE | 27,181.31 | 50,890.00 | 23,708.69 |
| | | 27,101.51 | 50,070.00 | |
| | TOTAL COSTS AND EXPENSES | 1,323,217.69 | 922,377.20 | (400,840.49) |
| | Increase (Decrease) in Net Assets | 56,723.75 | 198.80 | (56,524.95) |



AMATYC Foundation 2024 Delegate Assembly Report Submitted by Laura Watkins October 29, 2024

AMATYC Foundation Board Members: Judy Ackerman, Cheryl Cleaves, Ernie Danforth, Anne Dudley, Kyle Kundamol, Fred Peskoff, Dale Johanson, George Hurlburt, Laura Watkins (Chair)

The Foundation Board meets monthly via ZOOM. Here are some actions we have taken or items we have been working on in 2024:

- Wanda Garner Presidential Student Scholarship (WGPSS): The Foundation decided to award two \$1000 scholarships this year. Nominations were due October 15. The awardees were randomly chosen at the October Foundation meeting. The awardees are Sean Aberin, nominated by Anne Edlin, and Lila Ablimit, nominated by Aisha Arroyo.
- Leila & Simon Peskoff Award: The Leila and Simon Peskoff award was awarded to Nolan Outlaw.
- Hobbs Award: Margie Hobbs award was awarded to Becky Groseth.
- **Regional Scholarships:** The Foundation agreed to fund an additional 8 Regional Scholarships for Atlanta, above the 8 supported by the Executive Board.
- **AMATYC Project ACCCESS**: The Foundation continues to budget annual financial support (about \$12,000) to AMATYC Project ACCCESS fellows for conference housing and food.
- **Donations to the Foundation**: The 2023 fundraising drive raised \$39,626,59.

History of Donations

| Year | 2022 | | 2021 | | 2020 | | 2019 | | 2018 | | 2017 | |
|-------|-----------|-----|-----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| | \$ | # | \$ | # | \$ | # | \$ | # | \$ | # | \$ | # |
| Total | 35,562.98 | 311 | 23,145.14 | 217 | \$40,536 | 148 | \$28,475 | 314 | \$30,549 | 630 | \$33,375 | 537 |

| 2016 | | 2015 | | 2014 | | |
|----------|-----|----------|-----|----------|-----|--|
| \$ | # | \$ | # | \$ | # | |
| \$30,709 | 487 | \$28,843 | 575 | \$34,966 | 519 | |

- 2024 Fundraising Campaign: The Foundation has set the fundraising goal for this year to be \$50,000 and has been a yearlong fund-raising campaign in 2024. The fundraising campaign started May 1st and each month the foundation has highlighted the variety of ways that the Foundation supports both faculty and students. We have been encouraging members to donate \$50, or multiples of \$50, for AMATY'C's 50th Anniversary, where anyone who gave \$50 or more to AMATYC will be in a drawing for prizes. Every dollar makes a difference!
- **Newsletter Articles**: The Foundation submits one article for inclusion in each issue of the *AMATYC News*. The articles describe the work of the Foundation, highlighted the programs and awards funded by the Foundation, and encouraged monthly donations. Donors from the previous year are listed annually in the Fall issue.

•

57

Thanks to all donors for supporting members and the mission of AMATYC by contributing to the AMATYC Foundation!



AMATYC Mission, Vision, Values

AMATYC Mission Statement: The American Mathematical Association of Two-Year Colleges (AMATYC) mission is to provide high quality professional development, to build inclusive communities of scholars, and to collaborate with and advocate for all involved in mathematics education in the first two years of college. (Adopted by the Board January 2023)

AMATYC's Vision: To be the leading voice and resource for excellence and inclusion in the first two years of mathematics in colleges and universities. (Adopted by the Board January 2023)

AMATYC's Tagline: Opening Doors Through Mathematics (Adopted by the Board on June, 2016)

AMATYC's Core Values

Core Values represent core priorities, traits, or qualities in the organization's culture that are considered worthwhile. (Approved May 2023)

| Core Value: | Operational Definition: |
|-----------------------------|--|
| Excellence | Supporting the design and implementation of a quality educational experience in mathematics for students that uses practices proven effective by research. |
| Inclusivity | Providing a welcoming environment and ensuring full access to opportunities and resources for all students and faculty. |
| Community | Providing opportunities for networking, growth, and encouraging mutual respect for other mathematics professionals for the betterment of the mathematics teaching profession. |
| Responsiveness | Creating, developing, implementing, and redefining instructional strategies, curricula in mathematics, current technology, and classroom practices. Determine successful practices based on research of how students best learn mathematics and how faculty best teach mathematics. |
| Integrity | Safeguarding the qualities of honesty, sincerity, trustworthiness, global consciousness, and a code of sound moral professional principles. |
| Professional Development | mathematice enhancing personal growth and improving teaching methods and |



AMATYC Strategic Plan

AMATYC Strategic Plan 2024 - 2029

Approved May 2023

For all involved in mathematics education in the first two years of college, AMATYC will:

- 1. Provide Access to High Quality Professional Development
 - a. Offer professional development via various modalities.
 - b. Provide opportunities for reflection and gaining insights into effective practices for teaching mathematical concepts and pedagogical practices.
 - c. Address the needs of and offer professional development appropriate for faculty at various stages of their career.
- 2. Build an Inclusive Environment within AMATYC and within the First Two Years of Mathematics Education
 - a. Foster a climate where all feel welcome, valued, and included.
 - b. Promote a diverse community of mathematics educators which recognizes and welcomes the unique contributions of all participants.
 - c. Encourage and disseminate research focused on student learning for diverse learners.
 - d. Extend opportunities for local and regional networking to those interested in mathematics in the first two years of college including enriching relationships with and providing support for AMATYC affiliate organizations.
- 3. Collaborate and Advocate Externally
 - a. Expand the visibility of AMATYC, locally, nationally and internationally by strengthening collaborations with other organizations.
 - b. Expand student access to mathematics and statistics, particularly students from underrepresented groups.
 - c. Communicate and disseminate the AMATYC Standards, AMATYC publications, and national initiatives.
 - d. Support classroom research on teaching and learning.
- 4. Provide Resources for the Mathematics Community
 - a. Propagate and facilitate the sharing of research-based teaching, learning practices, and assessment methods.
 - b. Develop, update, and maintain position statements.
 - c. Promote and develop current and relevant standards.
 - d. Share tools for faculty that create a strong and relevant mathematics experience for all students, including successful curricular innovations.

Conference Site Selection

We did not site any new conference locations in 2024. It is anticipated that we will begin to site new locations in 2025.

Dates and locations for other future conferences are: Reno, NV, November 13 - 16, 2025 Philadelphia, PA, November 19 - 22, 2026 Spokane, WA, November 11 - 14, 2027 Phoenix, AZ, November 9 - 12, 2028



To: AMATYC Delegate Assembly

Year: 2024

Subject: Update Article VII, Section 1 of the by-laws

Submitted by: Dale Johanson

Date Submitted: 10/16/24

Motion: That the AMATYC Delegate Assembly

approve the following changes to Article VII, Section1 of the by-laws, allowing the Delegate Assembly to be held virtually going forward, effective immediately.

Rationale:

The Delegate Assembly (DA) has been held virtually since 2020. This change will match practice with policy.

The Executive Board approves this motion as a virtual DA is more equitable, allowing people who cannot attend the conference able to serve as delegates. It also opens up more time slots for presentations at the conference.

| Action taken by the Delegate Assembly on: 12/14/24 | | | | | | | |
|--|----------------------------|-----------|--|--|--|--|--|
| Approved | Postponed Until | Withdrawn | | | | | |
| Disapproved | Returned for Further Study | Other | | | | | |

Marked-up Version

Article VII Delegate Assembly

Section 1 The association shall have an annual business meeting (Delegate Assembly) in conjunction with its annual conferenceto be held virtually within two months of the closing of the conference.
 Notice of the Delegate Assembly meeting shall be publicized in writing or electronically at least one month in advance.

Clean Version

Article VII Delegate Assembly

Section 1 The association shall have an annual business meeting (Delegate Assembly) to be held virtually within two months of the closing of the conference.
 Notice of the Delegate Assembly meeting shall be publicized in writing or electronically at least one month in advance.



To: AMATYC Delegate Assembly

Year: 2024

Subject: New chapter of IMPACT

Submitted by: Mark A Earley

Date Submitted: 10/29/24

Motion: That the AMATYC Delegate Assembly

approve the new attached chapter of IMPACT effective immediately. This chapter will be published online once final editing is completed.

Rationale:

IMPACT (2018) includes support for faculty who teach mathematics and statistics in the first two years of college to increase students' PROWESS. Missing in IMPACT is support for faculty to create an environment where all students have access to high quality mathematics education in ways that maximize their individual potential. This new chapter, fully referenced, includes definitions, examples, and implementation suggestions for effectively working with our increasingly diverse student population. It will be a valuable addition to the current IMPACT document.

| Action taken by the Delegate Assembly on: 12/14/24 | | | | | | | |
|--|----------------------------|-----------|--|--|--|--|--|
| Approved | Postponed Until | Withdrawn | | | | | |
| Disapproved | Returned for Further Study | Other | | | | | |

Chapter #

Infusing Equity and Inclusion in the Mathematics Classroom

A garden's beauty never lies in one flower.

~Matshona Dhliwayo

College mathematics classrooms aspire to be a place where the pursuit of knowledge knows no bounds. Here, students from diverse backgrounds come together with unique dreams, abilities, and experiences. Within this crucible of learning, we find a microcosm of our society, rich in its diversity yet burdened by the disparities that often afflict it (U.S. DoE, 2016). In today's twenty-first-century world, the demand for mathematical literacy and critical thinking skills is more crucial than ever (Rizki & Priatna, 2019), necessitating educators ensure accessibility for all. "The American Mathematical Association of Two-Year Colleges' (AMATYC's) core values acknowledge the rights of all students to have access to high quality mathematics education in ways that maximize their individual potential" (<u>AMATYC, 2020</u>, para. 1). Curriculum, pedagogy, and classroom interactions impact all students.

Faculty's curricular decisions and pedagogy, including their individual interactions with students, can foster inclusive climates. Also, students report it is important that they see themselves reflected in the faculty and curriculum to which they are exposed to create a sense of belonging and inclusiveness. Research suggests that greater representation of underrepresented groups among faculty may increase students' sense of academic validation. (U.S. DoE, 2016, p. 37)

The purpose of this chapter is to help students, faculty, and institutions prioritize the recognition and celebration of each student's unique identity, including age, ancestry, color, disability, ethnicity, gender, gender identity or expression, genetic information, HIV/AIDS status, military status, citizenship status, national origin, pregnancy, race, religion, sex, sexual orientation, socio-economic status, or protected veteran status. This begins with creating an environment where everyone feels valued and understood, and that they belong. Faculty and staff need ongoing training and professional development opportunities around recognizing and addressing their own implicit biases, learning to assist students who experience stereotype threat and microaggressions, and learning how to recognize microaggressions and when and how to address them. In addition, faculty can foster diversity, inclusion, and a sense of belonging in college and in the mathematics classroom by engaging in teaching and learning methods, such as active and collaborative learning. Designing courses using elements of universal design can reduce the need for individualized accommodations and improve the learning experience of all students. Institutions should support faculty and staff in engaging in these activities, provide ample opportunities for training and professional development, and encourage an attitude of exploration with a willingness to question current policies and procedures and an openness to trying new strategies. AMATYC actively encourages the participation of all individuals in decision-making processes and activities, recognizing the importance of diverse voices and viewpoints. Every student is a valued and equal member of the classroom community. Together, we will uncover the power of mathematics as a tool for empowerment, social justice, and individual growth, setting the stage for a more equitable future for all within our college mathematics classrooms.

Sense of Belonging

Faculty who belong to historically marginalized groups may join a department or an organization, but without a sense of belonging may choose to move on. The same is true for students. Lewis et al. (2016) define academic belonging as "the extent to which individuals feel like a valued, accepted, and legitimate member in their academic domain" (p. xx) and go on to state, "Belonging has long been recognized as an innate human need and an important driver of physical and psychological well-being" (p. 421). This is particularly evident in the STEM disciplines, where the higher up the course is, the less diversity we see. A lack of sense of belonging is probably a significant factor in the underrepresentation of women in science (Lewis et al., 2016; Master & Meltzoff, 2020; Rainey et al., 2018). Mathematics is frequently perceived as a challenging subject and has been historically represented as a gatekeeper to STEM disciplines; there may be no discipline more in need of creating a strong sense of belonging for students and faculty than mathematics. Consider the following contrasting stories of two students in a precalculus course.

Takei is a student in his fourth week of a precalculus class. Takei's class does a lot of group work, so he has gotten to know several classmates over the past four weeks as they have worked together on various assignments. At the start of the semester, Takei's instructor had the class set ground rules for group work that included valuing all contributions and supporting one another's learning. Takei's instructor knows his name and acknowledges his contributions to class discussions in ways that leave him feeling motivated to learn more. Takei enjoys coming to class because it is a positive, comfortable environment.

Nichelle is also a student in her fourth week of precalculus class, but Nichelle's class does not include assignments that encourage her to get to know her fellow students. As a first-semester dual enrollment student, Nichelle is not used to taking college classes and feels a little ill at ease. In the first week of class, the person next to her whispered "how

stupid" under their breath as a student across the room offered an incorrect answer in a class discussion; this left Nichelle a bit afraid of what people might think of her contributions when she spoke up in class. Nichelle does not know of any other dual enrollment students in the course and has no reason to believe that the instructor knows her name. Nichelle feels anxiety going to class because she feels like an outsider in the environment.

Takei and Nichelle are at opposite ends of the spectrum on a sense of belonging scale. Sense of belonging means how much a person feels like they fit in and are part of a college community, which applies to instructors and students alike in different contexts. Belonging in a college community is fostered by feeling accepted, respected, included, and supported by others. From a student perspective, there are many ways in which faculty can support the development of a sense of belonging which will be addressed below.

Faculty perspective

On the classroom level, a student's sense of belonging is integrally linked to the community environment, and faculty can make a difference in helping (or hurting) the student's abilities to develop a sense of belonging. Four basic strategies for developing a sense of belonging in students include:

- Showing clear and multiple avenues for support..
- Investing time and energy in helping students develop relationships with peers.
- Utilizing active learning strategies and inclusive practices (being mindful that moving away from lecture can mean moving our marginalized students into unsafe spaces). (Concrete examples can be found at https://www.ams.org/publications/journals/notices/201702/rnoti-p124.pdf and https://www.usma.edu/sites/default/files/inline-images/centers_research/center_for_teching excellence/PDFs/mtp project papers/Gatewood 13.pdf).
- Giving students structure to think about how to adapt to the college environment.

Educators play a pivotal role in shaping a sense of belonging in educational institutions, inside and outside of their classroom. By promoting empathy, acceptance, and mutual respect, faculty convey the importance of the other person. This sense of belonging, whether in students or with colleagues, contributes to increased engagement and a positive outlook towards the importance of their work. For students that can mean positive social and emotional development and increased academic success. For communities of faculty, we are helping to create more inclusive and equitable spaces, where we are enriched by the diversity of the people in our communities. A sense of belonging for faculty is just as important as it is for students, impacting educators' professional efficacy, job satisfaction, and overall well-being. As colleagues, we need to attend to the ways in which we support one another and develop relationships within our communities (departments, institutions, and organizations).

Institutional perspective

At the institution level, faculty are at the heart of student success. They are directly responsible for curriculum development, delivering content, and connecting to students. Two-year college

students face distinct challenges compared to their counterparts at four-year institutions, including limited on-campus living options, less involvement in college clubs, and greater non-education-related responsibilities, all of which leads to lower levels of belonging. It is the institution's responsibility to support faculty with the opportunities and training to help them better develop curriculum and standard practices that elevate historically marginalized groups in the college community and in mathematics.

Finally, hiring is an important area for institutions to focus on. Research indicates that greater representation of underrepresented groups among faculty may increase students' sense of academic validation. (U.S. DoE, 2016, p. 37) When the demographics of the faculty do not mirror the demographics of the community being served, students from underrepresented groups experience a lowered sense of belonging. This is a problem the institution should intentionally address. Students gain unique perspectives on mathematics, classroom interactions, college, and life from diverse identities. Diversity, equity, inclusion, and accessibility should be critical aspects of any hiring process, retention policy, professional development program, workload, and staffing policy.

A sense of belonging is deeply personal. No institution or single person can control whether another human feels like they belong somewhere, but we, individually and collectively, can make intentional choices to try to let others know they do belong and they are important.

Stereotype Threat, Implicit Bias, and Microaggressions

Most instructors go into the teaching profession because of a love for their discipline, coupled with a strong desire to help others or make a difference. However, barriers to their students' success can be created by implicit biases, microaggressions, and stereotype threat. Unfortunately, many instructors have received little to no training in how to engage in such conversations, and the student may experience their awkwardness and hesitation as a microaggression. How do stereotype threat, implicit biases, and microaggressions affect the classroom dynamic and campus climate for faculty and students?

Stereotype Threat and Implicit Bias

Stereotype threat can preoccupy our students' brains to the point that it reduces their focus and negatively impacts academic performance, leading to uncertainty about belonging in the mathematics classroom or even in college. Students may become hypervigilant, searching the environment for signs they do, or do not, belong, robbing them of cognitive resources that could be better employed in learning. When students are confident they belong, they focus better on the academic work, build better relationships, and engage more fully in the course and college.

Imelda is the only student who identifies as female in her calculus class. She is very conscious of being the only female and worries that every time she asks a question, other students and the instructor see her as the representative of all women.

To address stereotype threat, instructors should educate themselves about their own implicit biases. Education about and exposure to theories about both implicit bias and microaggressions can help faculty to recognize them when they occur and to then formulate appropriate actions. One of the most well-known instruments for assessing implicit biases is the Implicit Association Test hosted by Harvard, <u>https://implicit.harvard.edu/implicit/research/</u>. There are 16 different tests on topics such as gender-career, transgender, disability, age, and race, which reveal the ease with which your brain makes associations. These can reveal biases towards associating White

faces with good things and Black faces with negative things, for example. When faculty are tired, stressed, pressed for time, or have incomplete or ambiguous information about a situation, these biases can assert themselves. For example, an implicit belief that women are not good at mathematics may lead to seeing more errors in a woman's work or in discounting the correctness of an argument. Situations that unexpectedly arise in the classroom can lead to these kinds of influences. Taking a moment to breathe and think can help faculty keep from being as influenced by implicit biases.

Addressing implicit biases and microaggressions is important work for faculty; these subtler forms of prejudice and bias may be more damaging to recipients than more overt forms of prejudice and bias (Solórzano et al., 2000; Sue, 2010), leading to disengagement, anxiety, frustration, self-doubt, symptoms of PTSD, and emotional distress (Casanova et al., 2018; Solórzano et al., 2000; Sue, 2010; Sue et al., 2007; Williams et al., 2020). Students who experience STEM-related stereotyping or biases may question whether they belong in a STEM field, doubt their own abilities, and ultimately choose not to pursue that path (Grossman & Porche, 2014). Consider the following methods to counteract implicit biases:

- Meaningful interaction with people whose identities differ from one's own (Staats, 2015/2016).
- Exposure to counter-stereotypical examples, such as posters of Black or LGBTQ mathematicians.
- Disaggregating success, failure, and withdrawal rates by race/ethnicity and/or gender.

Microaggressions

Individual implicit biases often underlie microaggressions, which draw attention away from the beliefs of the individual and, instead, focus it on the combined effects of many experiences and their connection to systemic injustice (Applebaum, 2019). The effect of microaggressions is cumulative; it can be compared to a thousand tiny stings or mosquito bites (Ogunyemi et al., 2020; Solórzano et al., 2000; Sue, 2010). Microaggressions include microassaults, microinsults, and microinvalidations (Sue et al., 2007).

Microaggression Examples

- *Microassault*: asking a prospective female math major if choosing that major would have a negative impact on the student's child, the implication being that one cannot be both a good mother and a mathematician.
- *Microinsults*:
 - Black people are too loud and boisterous.
 - Asians are too quiet (Ogunyemi et al., 2020).
 - Failing to call on female students or underrepresented minorities in class (lack of intelligence or competence).
- Microinvalidation:
 - An instructor who claims to be "racially color blind."
 - Expressing surprise that Latina/o or Asian students speak "good English" or are "from here" (Ogunyemi et al., 2020).

These "subtle snubs" (Sue et al., 2007, p. 273) are often dismissed or smoothed over as inconsequential, unintentional, and therefore undamaging, and harmless. In most cases, the perpetrator is interpreting the situation as a single instance, whereas the recipient is interpreting the situation as one of many experiences of a similar nature.

Bias in the classroom is more likely to be subtle than overt, and students generally perceive more bias than do instructors (Ogunyemi et al., 2020). The effect is often disengagement, frustration, and exhaustion, which can further damage academic performance (Sue et al., 2019). Students may end up feeling that they do not belong and that less is expected of them than of members of the dominant group. Microaggressions can come from all directions. Studies have shown that students tend to think that faculty of color are less competent and question their authority and grading schemes more frequently than faculty from dominant groups. This same dynamic applies to female faculty when compared to male faculty. To address bias in the classroom:

- Directly confront bias, when appropriate.
- Facilitate group conversation, validating the emotional responses of students.
- Model "openness and honesty in discussing [one's] own biases, weaknesses, or disruptive personal feelings" (Ogunyemi et al. 2020, p. 108).

There are various strategies to address microaggressions. Consider the following:

- Confront the microaggression.
 - "I know you meant well, but that really hurts."
 - "I know you meant it as a joke, but it really wasn't funny."
 - "I know you like to kid around a lot but think how your words affect others."
 - "I know you meant it to be funny, but that stereotype is no joke" (Sue et al., 2019, p. 139).
- Make the invisible visible.
 - "I don't agree with what you just said."
 - "That's not how I view it" (Sue et al., 2019, p. 136).
 - "Are you saying that Black students are not good at problem solving?"
- Disarm the microaggression.
 - Nonverbal communication: lifting your eyebrows, frowning, looking down or away, or shaking your head.
 - "Whoa, let's not go there. Maybe we should focus on the task at hand" (Sue et al., 2019, p. 137).
- Educate the perpetrator.
 - "I know you didn't realize this, but that comment you made was demeaning to X because not all Arab Americans are a threat to national security."
 - "I know you really care about representing everyone on campus and being a good X, but acting in this way really undermines your intentions to be inclusive" (Sue et al., 2019, p. 137).

- "That is a negative stereotype of African Americans. Did you know they also want to be an engineer just like you? You should talk to them; you have a lot in common."
- Seek external reinforcement or support (Sue et al., 2019, p. 128).

One of the difficulties in addressing microaggressions is that a strategy might be effective and mitigate some of the negative effects for some groups (e.g., political activism for Latino/a students) and worsen the situation and effects for other groups (e.g., political activism for Black students) (Ogunyemi et al., 2020). Nevertheless, growing evidence suggests that more proactive strategies, such as problem solving and discussing the situation with supportive others, may help students better respond to future microaggressions. Disengaging, on the other hand, seems to have a negative effect (Ogunyemi et al., 2020, Sue et al., 2019). Consider the environment and context before deciding to act, so the situation is not inadvertently made worse for the victim. Constantly confronting microaggressions is emotionally exhausting and takes a physical toll:

- Consider when and where (and whether) to confront the perpetrator.
- Consider whether confrontation or education should be the more dominant response.
- Be sensitive to the relationship dynamics among the people present.
- Consider the ramifications and possible consequences of taking action, particularly when there is a power dynamic at play, such as between a student and faculty member.

When more people begin to accept collective responsibility to act, fear of negative consequences and retaliation will lessen, and real societal change can take place. (See also Chapter 6, p. 56.)

The world is a dangerous place to live, not because of the people who are evil, but because of the people who don't do anything about it.

~Albert Einstein

The Institution's Role in Equity

Colleges have continuously improved efforts to provide an environment that maximizes success and helps transform students' lives. Developmental education reform efforts (Jenkins et al., 2019) and, more recently, guided pathway (AACC, 2017) efforts, have shifted the way institutions think about, support, and provide learning opportunities for students. As part of the guided pathways movement, the concept of meta-majors (Jobs for the Future, 2016), or areas of interest, has coincided with a shift away from a "single mathematics course for all" mindset and towards a mathematics pathway (Dana Center, n.d.) approach. By offering general education mathematics courses that align to students' degree programs, faculty are creating learning environments that foster mathematical proficiency. Concurrently, developmental education reform movements have changed the path to these various gateway courses. Two primary changes, reduction of the developmental course sequence and adjustments to placement processes, enhance student access to and success in gateway mathematics courses to transform outdated practices. As institutions work and innovate to improve student success, efforts must emphasize equitable student success outcomes. Institutions must ask themselves: How are we measuring reform movement success? Are outcome gaps being closed due to the new practice or policy? Are students experiencing support in equitable proportions? "We need a long-term sustained focus from professional organizations, college leadership, faculty, staff, and policy makers" (AMATYC, 2018, p. 62). However, supporting faculty and staff with resources is just half the work for executive leadership. Governing boards should be invested in guides (ACCT, 2020) and professional learning opportunities to ensure new and revised policies and procedures are reviewed with an equity lens. Additionally, executive leadership teams should be actively involved in national organizations that promote data-informed and evidence-based decision making with disaggregated data (AACC, n.d.; Achieving the Dream, n.d.; Garder Institute, n.d.). Data should expand beyond the classroom to include co-curricular, support services, and post-graduation information.

National faculty associations have created visions (e.g., the American Association of Colleges and Universities (AAC & U, 2018) *A Vision for Equity*), series (e.g., the Mathematical Association of America's *Equity in Action* (2022)), networks (e.g., the National Organization for Student Success' *Equity, Access and Inclusion Network* (n.d.)), and position statements (e.g., AMATYC's Diversity, Equity and Inclusion statement (2020)) focused on equity in the transformation of curriculum, pedagogy/andragogy, and support services. Administration needs to support faculty participation in organizations such as these, bolster professional development resources, and incentivize localized research. Faculty ownership of the transformed learning environment requires a commitment from administration to support professional learning, innovative practices, and continuous improvement models. These continuous improvement models must take on a collaborative approach to move the needle on equity gaps; mathematics faculty cannot do it alone. Institutional research, faculty in other disciplines, student affairs, and academic support departments are all critical to both increasing student success and achieving equitable student outcomes.

Institutions support students through many departments and programs that rely on the expertise of educators serving in staff roles. Staff facilitate and coordinate institutional operations, including registration, financial aid, and tutoring. The multitude of roles that staff utilize to effect change and to implement equitable practices provide them with a unique capacity to change our institutions. Staff support our institutions' equity missions through student support services, hiring practices, and collaboration with faculty and local schools.

Change must happen individually before it can happen collectively. People drive change, lead change, and sustain change. Lasting change happens when educators understand both the meaning of equity and that meaning is represented through personal values, beliefs, and actions. (McNair et al., 2020, p. 1)

The Institution's Role in Evidence-Based Practices

To make an impact on student success in the first two years of college mathematics will require faculty to view mathematics education through an equity lens (Kezar et al., 2020; Lin et al., 2020; Purnell & Burdman, 2022). To support faculty in viewing efforts through an equity lens, it is imperative that institutions provide support in terms of available evidence. The data provided must be aggregated and disaggregated, showing a clearer picture of the intricacies in the data. Equally important, the institution must seek out and make available qualitative data to inform
faculty on the student experience. Both ownership and engagement are PROWESS Pillars (AMATYC, 2018, p. 9) and cannot be fully measured without speaking to and understanding the student experience. Finally, and most importantly, the institution must create a culture that supports data use as a tool for improvement, not as an instrument of fault finding. (See also Chapter 6, pp. 57-60.)

As stated in the AMATYC (2020) statement on *Diversity, Equity, and Inclusion in Mathematics*, "Equity reform in mathematics teaching requires institutional change, such as ... collect data that is disaggregated, longitudinal and includes quantitative and qualitative components" (para. 4).

Collecting the data does not, by itself, create a more equitable environment for the teaching of mathematics. The institution must also create an environment that allows and encourages faculty to ask questions about the data, investigate the causes of disparities in the data, and act upon their conclusions. As seen in AMATYC's (2018) *IMPACT*, there is no "average" student in the community college. Each institution will have unique needs based on the population of students. This also means that honest discussions around the current success and difficulties of marginalized populations must occur (Diggles, 2014). This will only happen when faculty operate in a culture that encourages and promotes the deep understanding and questioning of data (Hora et al., 2017).

Active and Collaborative Learning

Incorporating diversity and inclusion into active learning is essential for creating an equitable and supportive educational environment. Active learning strategies engage students in the learning process and can be enhanced to promote diversity and inclusion. When researching active learning or collaborative learning, instructors will find various definitions. We will define active learning as learning that allows for students to be engaged in their learning process as opposed to passive learning (such as lecture-based). Likewise, we will define collaborative learning as using groups of two or more students to share in the learning process.

Integrating active learning in mathematics classrooms involves replacing the traditional lecture model with one that supports productive student interactions (Boyce & O'Halloran, 2020). A study by Theobald et al. (2020) found that the amount of active learning students perform in a STEM classroom positively correlates with narrowing achievement gaps between students in minoritized groups and non-minoritized groups. It should be noted that active learning in the classroom reconstructs the instructor's role to that of a facilitator of student's educational development. The interaction between the instructor and student is productive and relies on each class session's context (Lombardi et al., 2021). Theobald et al. (2020) noted that this does not mean that lecturing is not an effective form of instruction; however, lecture alone will not deepen most students' understanding in STEM. Lombardi et al. (2021) stated that it is important to ensure that when incorporating lecture with active learning activities, it must be implemented to increase student action in knowledge development and meaning building.

Active learning in the mathematics classroom also involves collaborative learning. According to Ching (2020), collaborative learning allows students the opportunity to be more actively engaged in their learning or task and hence helps them understand the material more efficiently. The author furthermore states that collaborative learning has also shown that students who tend to perform below average become more capable in their education. Ching (2020) discussed a study

in which collaborative learning techniques were implemented in a college mathematics class. It was found that students who were typically less engaged in solving mathematics problems became more diligent in working on their mathematics exercises when given the opportunity to work with other classmates. These students also increased their cognitive and social skills through working with fellow students.

Student-to-student and instructor-to-student interaction is important for positive effects on students' learning in the classroom. Lugosi and Uribe (2022) found that when the instructor gives feedback and encouragement during active learning activities, this can have an improvement in students' emotional intelligence. The authors also discovered that allowing students to work in groups, engage in class presentations, and have opportunities to explore and experiment in their mathematics class will result in students being engaged in problem solving and mathematical inquiry. In fact, students are more apt to connect current mathematics knowledge to previous knowledge by engaging in active learning activities in the classroom and hence increase their likelihood of storing this new knowledge into their long-term memory.

What about microaggressions that may occur in the classroom during an active learning activity? How can the instructor respond to possible microaggressions? Souza (2018) created a communication framework on how we can respond to microaggressions in the classroom called ACTION. Implementing these strategies in your classroom can help address and even reduce microaggressions in the classroom.





Active learning has been gaining momentum in higher education. Many colleges are researching the effectiveness of implementing active learning strategies in the classroom. Collaborative

learning works hand in hand with active learning activities to help students work with their peers and help each other in their learning process. By implementing active learning techniques in the classroom, students can become more engaged in their work and their education journey.

Examples of active and collaborative learning:

- Whole group discussions.
- Online collaboration spaces (such as Teams or Zoom)
- Think/Pair/Share.
- Class polls (such as Kahoot or Jotform).
- Group projects (collaborative learning).
- Class games to review material (such as Jeopardy or Bingo).
- Multiple small groups working on problems together at the board.

In an inclusive mathematics college classroom, active learning takes center stage as a dynamic and equitable pedagogical approach. Here, students of diverse backgrounds and abilities actively engage in the learning process through collaborative problem solving, group discussions, and hands-on activities. This approach fosters an inclusive environment where all voices are heard and valued, enabling students to acquire mathematical knowledge and develop critical thinking skills, boost self-confidence, and appreciate the richness of different perspectives. Instructors create a supportive space where students feel empowered to explore mathematical concepts together, breaking down barriers and ensuring that all learners have an opportunity to thrive in the world of mathematics. (See also Chapter 5, p. 44.)

Universal Design

Students experiencing life-long or temporary physical, psychological, or mental impairments are human beings who add to the diverse cultural mix of society and contribute to our society in all the unique ways that each other member of society does. Such differences include, but are not limited, to visual, speech, mobility, dexterity, and hearing impairments; intellectual disabilities; major depressive disorders, emotional illnesses, post-traumatic stress disorders, traumatic brain injuries, and specific learning disabilities, such as autism, ADD, and ADHD; cerebral palsy; epilepsy; muscular dystrophy; multiple sclerosis; orthopedic conditions; cancer; heart disease; diabetes; and contagious and noncontagious diseases, such as tuberculosis and HIV disease (whether symptomatic or asymptomatic). These disabilities or differences can be invisible or visible.



Figure 2. Community college students with disabilities, 2015–2016 (AACC, 2018).

The National Center for Educational Statistics (NCES, 2022) reports that 13% of the students at community colleges have reported disabilities to their institutions, however, NCES data further suggests that only 37% of the students with disabilities do inform their institutions (Key Findings, Informing). Our population of students with disabilities is large—close to one third of students with disabilities attend community colleges. Figure 2 identifies the major categories of reported disabilities at community colleges.

Fostering equity and inclusion demands that we acknowledge the need for implementing the principles of universal design into our programs and curriculum. Universal design for learning, as developed by CAST, is a framework to improve and optimize teaching and learning for all people, based on scientific insights into how humans learn. It is useful to consider the social model of disability. Society has moved from a medical model (treating the individual to fit) to a more inclusive social model (how we arrange society to be inclusive) with respect to abilities. The disabilities that are experienced in the classroom or on campus are there because the environmental framework was built to benefit physically, mentally, and psychologically able-bodied persons. It was a choice. We can instead grow a more humane society, and embrace and choose inclusivity.

Faculty can promote disability justice and reduce ableism through the inclusion of equitable teaching and learning practices, such as disability accommodations and inclusive course design strategies. Through these practices, barriers can be reduced and, in some cases, entirely removed for students with disabilities. Disability accommodations focus on meeting the individual needs of the student by requesting modifications to the learning environment. By setting up proactive strategies to create courses and support services that are accessible to the widest variety of students, institutions, faculty, and staff may reduce the need for some individualized disability accommodations. One example would be reducing timed assessments. Extended time on tests as an accommodation should also be considered as part of universal design. Timed tests in mathematics have been shown to heighten anxiety in some students while lowering their overall exam performance (Stretch & Osborne, 2019). The authors also discuss how extended time on tests can be beneficial for most students. In fact, Gernsbacher et al. (2020)

delve into the inequitable and exclusive nature of timed tests as evidenced in studies and propose the subsequent recommendations:

- Remove time limits on all tests.
- If time is limited due to class constraints, consider administering the test asynchronously (such as online or take home).
- Consider assigning projects, reflections, and other alternative types of assessments to assess mastery in addition to traditional testing.

Designing assessments that are not time bound or use less than one quarter of the classroom time (so that students needing additional time would be naturally accommodated within the classroom time structure) would be an appropriate accommodation to the social structure, reducing the medical model of exceptions for individuals. As part of envisioning a more inclusive society, instructors and support staff need to center the students' needs. Accommodations do not change the expectations of students to meet essential requirements or learning outcomes of a course, service, or program, though essential requirements may need to be evaluated and modified if they are bound by a particular mobility, physical, or dexterity ability. For example, does every student need to graph an equation without technology, or is the course requirement to know the characteristics of types of graphs and to recognize those characteristics? See Table 1 for examples of accommodations that can be promoted at the institutional, faculty or staff, or student level. (See Chapter 4, pp. 37–39 for more information.)

Table 1

| Institutional Practices | |
|---|---|
| Relocate to an accessible building or classroom. | Use experiential learning accommodations (e.g., internships, practicums, student teaching). |
| Provide accessible furniture. | Provide access assistance (e.g., scribes, readers, lab assistants. |
| Employ sign language interpreting and real-time captioning. | Provide accommodation letters. |
| Set policies and use language that directly relate to diversity, equity, or inclusion (e.g. diversity statements; statements about pronouns). | |
| Faculty or Support Staff Practices | |
| Create accessible documents or slide decks (using built-in software formatting). | Use experiential learning accommodations (e.g., internships, practicums, student teaching). |
| Record lectures with closed captioning or transcripts. | Provide access assistance (e.g., scribes, readers, lab assistants). |

Institutional, Faculty or Support Staff, and Student Practices

| Set flexible attendance policies. | Set flexible assignment deadlines. | |
|--|--|--|
| Use extended time. | Scaffold assignments. | |
| Allow use of computers or tablets for note taking or in class assignments. | Allow individual or group work to reduce social anxiety and other conditions. | |
| Consider self-disclosure of one's own hidden disabilities; be open to students' self-disclosure. | Attend to the overall tone of syllabi with a balance between authoritative and directive versus friendly and accessible. | |
| Internalize the fact that disability is not a "one size fits all" process. | Set clear expectations around office hours, guidance, questions, and help-seeking. | |
| Reduce classroom and office distractions | Build social belongingness among students and groups are safe from microaggressions. | |
| Use a variety of teaching strategies: visual and audio representations, in class and online materials and discussions, regular feedback. | Provide a choice of a project, presentation, or paper to demonstrate knowledge and skills. | |
| Student Practices | | |
| Ask for priority seating | Use assistive listening devices | |
| Ask for peer note taking | Report disability and seek accommodations | |
| Consider self-disclosure to instructor | Use computer or tablet for note taking or assignments | |

Developing and implementing a teaching practice based on universal design may seem like a monumental undertaking, but small steps and incremental changes can make a big difference (Boysen, 2021; Dahlstrom-Hakki & Wallace, 2022; Duranczyk & Fayon, 2008; Izzo et al., 2010; Kachwalla, 2021; La et al., 2018; Lambert et al., 2021; Penner, 2018). Universal design for learning takes into consideration assessments, pedagogy, and communications. These considerations reduce students' need for individualized accommodations and can benefit all learners, not just the students with disabilities. The following list includes some resources to get started.

- Action Planning Worksheet for Universal design for learning. <u>https://thinkcollege.net/resource/universal-design-learning-udl/action-planning-worksheet</u> <u>-universal-design-learning</u>
- Center for Applied Technology (CAST) website. <u>www.cast.org</u>

- Universal Design: Process, Principles, and Applications. https://www.washington.edu/doit/universal-design-process-principles-and-applications
- ULD Guidelines by CAST. https://udlguidelines.cast.org/
- Universal Design for Learning in Higher Education. <u>http://udloncampus.cast.org/home</u>

Working Together for Equity and Inclusion

This chapter highlights the benefits of equity and inclusion within our college mathematics classrooms. It recognizes that our diverse student body brings with it a wealth of perspectives, talents, and experiences. By promoting fairness and accessibility, we ensure that every student has the opportunity to thrive mathematically, irrespective of their background.

Every student is a valued member of the educational community, irrespective of background or identity. The best path forward in mathematics education is to recognize that the success of all students is of paramount importance, but it is a multifaceted issue without a quick fix. Mathematics education must look beyond the content and to the student. Helping students feel a sense of belonging in the classroom, being aware of our own biases, and adopting universal design are three critical aspects of supporting student success. We encourage faculty to become leaders in this ripple of change that creates supportive environments for all students to learn.

Faculty are at the heart of student success. They are directly responsible for delivering content and connecting to students. "It's their passion, hard work and authentic interactions that help" students succeed (Malvik, 2020, para. 1). Faculty develop and deliver the mathematics curriculum and, therefore, have the responsibility and discretion to select the educational experiences encouraged in the classroom (U.S. DoE, 2016). Many well-established frameworks foster pedagogical engagement with access and inclusion, incorporating students with disabilities, as well as other populations that have experienced marginalization in our society; examples include antiracist pedagogy, multicultural education, and inclusive pedagogy. Regardless of the approach, accessible and inclusive teaching is guided by these seven grounding principles (Carter, 2022):

- 1. **Integrate diversity:** Establish guidelines that capitalize on difference as inherently valuable by including and supporting diverse voices throughout the course in reading materials, research cited, visuals presented, and all course and classroom artifacts. (See Chapter 3, p. 25.)
- 2. **Expand access:** Identify the key skills necessary for achieving course goals and proactively consider accessibility to reduce the need for reactive or retroactive adjustments throughout the semester.
- 3. **Foster belonging:** Design the course with a learning community model, where there are shared responsibilities, being proactive in addressing and interrupting exclusionary social dynamics. (See Chapter 4, p. 33.)
- 4. **Utilize differentiated instruction:** Explicitly acknowledge and model multiple instructional practices to reinforce that one approach to teaching and learning does not meet the needs of all students or all instructors. (See Chapter 4, p. 34.)
- 5. **Embrace structured flexibility:** Design the course with multiple paths to achieve course goals and alternative plans, as changes in structure may enhance both students' and instructors' performances. (See Chapter 7.)

- 6. **Model transparency:** Be explicit in clearly presenting, describing, and detailing learning objectives, essential requirements, and pedagogical choices to enhance students' understanding of teaching and learning decisions.
- 7. **Incorporate feedback:** Create opportunities for reflection, feedback, and revision within assignments and in the overall course design, so personal and shared reflections can inform the teaching and learning practices throughout the semester. (p. 2)

Institutions are responsible for ensuring faculty are supported and provided with resources and professional development opportunities, not leaving faculty to work alone. Only by engaging and supporting faculty as a community of practitioners, and by fostering the willingness to question long-held beliefs, will the ripple continue to grow. Institutions must hire faculty who are credentialed and highly knowledgeable about teaching and learning theories for mathematics and who can bring diverse perspectives and differing views to the classroom (<u>AMATYC, 2018</u>). Through this diversity, students gain unique perspectives on mathematics, classroom interactions, college, and life. Institutions must focus on who is in the classroom to ensure students succeed in their first two years of college mathematics.

Faculty are responsible for exploring their own implicit biases, learning how to address microaggressions in and out of the classroom, and supporting students who may be experiencing stereotype threat. By utilizing pedagogical techniques, such as active and collaborative learning, and designing courses with a more universal design, faculty can improve the college experience of students and increase student success. Diversity, equity, inclusion, and accessibility should be critical aspects of any classroom experience, curriculum development, pedagogy, hiring process, retention policy, and professional development program. When institutions, faculty, and staff collaborate to address these issues together, we can build stronger, more effective programs and positively impact student success.

For other resources on equity and inclusion, click here.

Do you already have great information or ideas on infusing equity and inclusion into the mathematics classroom? Would you like to learn about more ways to foster sense of belonging in your students? Head to AMATYC.org/IMPACTLive and find innovations your colleagues are using or contribute innovations and ideas of your own.

References

- Achieving the Dream. (n.d.). *Transforming colleges, transforming communities*. <u>https://achievingthedream.org/</u>
- American Association of Colleges and Universities (AAC & U). (2018). *A vision for equity*. <u>https://www.aacu.org/publication/a-vision-for-equity</u>
- American Association of Community Colleges (AACC). (2017). AACC pathways: Building capacity for reform at scale in the community college field. https://www.aacc.nche.edu/programs/aacc-pathways-project/
- American Association of Community Colleges (AACC). (2018). Students with disabilities. *Data Points*, 6(13).

https://www.aacc.nche.edu/wp-content/uploads/2018/09/DataPoints_V6N13.pdf

- American Association of Community Colleges (AACC). (n.d.). What is the VFA? *Voluntary Framework of Accountability*. <u>https://vfa.aacc.nche.edu/about-vfa/</u>
- American Mathematical Association of Two-Year Colleges (AMATYC). (2018). *IMPACT: Improving mathematical prowess and college teaching*. <u>https://cdn.ymaws.com/amatyc.site-ym.com/resource/resmgr/impact/impact2018-11-5.pd</u> <u>f</u>
- American Mathematical Association of Two-Year Colleges (AMATYC). (2020). Position statement of the American Mathematical Association of Two-Year Colleges: Diversity, equity, and inclusion in mathematics. https://amatyc.org/page/PositionDiversityEquityInclusion
- Applebaum, B. (2019). Remediating campus climate: Implicit bias training is not enough. *Studies in Philosophy & Education*, 38(2), 129–141. <u>https://doi.org/10.1007/s11217-018-9644-1</u>
- Association of Community College Trustees (ACCT). (2020). *Diversity, equity & inclusion: A checklist and implementation guide for community college boards*. <u>https://www.acct.org/publications-media/reports-and-papers/diversity-equity-and-inclusio</u> <u>n-2020</u>
- Boyce, S., & O'Halloran, J. (2020). Active learning in computer-based college algebra. *PRIMUS*, 30(4), 458-474. <u>https://doi.org/10.1080/10511970.2019.1608487</u>
- Boysen, G. A. (2021). Lessons (not) learned: The troubling similarities between learning styles and universal design for learning. *Scholarship of Teaching and Learning in Psychology*, 1-15. <u>https://psycnet.apa.org/doi/10.1037/stl0000280</u>
- Carter, A. M. (2022). *Teaching with access and inclusion*. Minnesota Transform and the Center for Educational Innovation, University of Minnesota. <u>https://z.umn.edu/TAI</u>
- Casanova, S., McGuire, K. M., & Martin, M. (2018). "Why you throwing subs?": An exploration of community college students' immediate responses to microaggressions. *Teachers College Record*, *120*(9), 1-48. https://doi.org/10.1177/016146811812000901

- Ching, D. A. (2020). Two cubed approach in a collaborative classroom and the enhanced algebra and social skills of college students. *Universal Journal of Educational Research*, 8(10), 4920-4930. <u>https://doi.org/10.13189/ujer.2020.081064</u>
- Dahlstrom-Hakki, I., & Wallace, M. L. (2022). Teaching statistics to struggling students: Lessons learned from students with LD, ADHD, and autism. *Journal of Statistics and Data Science Education*, *30*(2), 127-137. <u>https://doi.org/10.1080/26939169.2022.2082601</u>
- Dana Center. (n.d.). *Mathematics pathways: The right math at the right time for each student*. <u>http://www.dcmathpathways.org/</u>
- Diggles, K. (2014), Addressing racial awareness and color-blindness in higher education. *New Directions for Teaching and Learning*, 2014(140), 31-44. <u>https://doi.org/10.1002/tl.20111</u>
- Duranczyk, I. M., & Fayon, A. K. (2008). Successful undergraduate mathematics through universal design of essential course components, pedagogy, and assessment. In J. L. Higbee & E. Goff (Eds.), *Pedagogy and student services for institutional transformation: Implementing universal design in higher education* (pp. 137-153). University of Minnesota.
- Gardner Institute. (n.d.). *Lead every student to graduation—And your institution to lasting growth*. <u>https://gardnerinstitute.org/</u>
- Gernsbacher, M. A., Soicher, R. N., & Becker-Blease, K. A. (2020). Four empirically based reasons not to administer time-limited tests. *Translational Issues in Psychological Science*, 6(2), 175-190. <u>https://psycnet.apa.org/doi/10.1037/tps0000232</u>
- Grossman, J. M., & Porche, M. V. (2014). Perceived gender and racial/ethnic barriers to STEM success. Urban Education, 49(6), 698-727. <u>https://doi.org/10.1177/0042085913481364</u>
- Hora, M. T., Bouwma-Gearhart, J., & Park, H. J. (2017). Data driven decision-making in the era of accountability: Fostering faculty data cultures for learning. *The Review of Higher Education, Project MUSE*, 40(3), 391-426. <u>https://doi.org/10.1353/rhe.2017.0013</u>.
- Izzo, M. V., Rissing, S. W., Andersen, C., Nasar, J. L., & Lissner, L. C. (2010). Universal design for learning in the college classroom. In W. F. E. Preiser & K. H. Smith (Eds.), *Universal design handbook* (2nd ed., p. 39.1-39.6). McGraw-Hill.
- Jenkins, D., Lahr, H., Brown, A. E., & Mazzariello, A. (2019). *Redesigning your college through guided pathways: Lessons on managing whole-college reform from the AACC Pathways Project*. Community College Research Center. https://ccrc.tc.columbia.edu/publications/redesigning-your-college-guided-pathways.html
- Jobs for the Future. (2016). *Meta-Majors: An essential first step on the path to college completion.* <u>https://archive.jff.org/resources/meta-majors-essential-first-step-path-college-completion/</u>
- Kachwalla, B. (2021). Making math accessible to all students: Effective pedagogy? *Journal of Higher Education Theory and Practice*, 21(3), 89-95. https://articlearchives.co/index.php/JHETP/article/view/2899
- Kezar, A., Holcombe, A., Vigil, D., & Dizon, J. P. M. (2021) Shared equity leadership: Making equity everyone's work. American Council on Education; University of Southern California, Pullias Center for Higher Education.

- La, H., Dyjur, P., & Bair, H. (2018). Universal design for learning in higher education. *Taylor Institute for Teaching and Learning*. Calgary: University of Calgary.
- Lambert, R., Imm, K., Schuck, R., Choi, S., & McNiff, A. (2021). "UDL is the what, design thinking is the how:" Designing for differentiation in mathematics (EJ1321118). ERIC. *Mathematics Teacher Education and Development*, 23(3), 54-77. https://files.eric.ed.gov/fulltext/EJ1321118.pdf
- Lewis, K. L., Stout, J. G., Pollock, S. J., Finkelstein, N. D., & Ito, T. A. (2016). Fitting in or opting out: A review of key social-psychological factors influencing a sense of belonging for women in physics. *Physical Review Physics Education Research*, 12(2), 1-10. <u>https://doi.org/10.1103/PhysRevPhysEducRes.12.020110</u>
- Lin, Y., Fay, M. P., & Fink, J. (2020). Stratified trajectories: Charting equity gaps in program pathways among community college students (ED610667). ERIC. https://files.eric.ed.gov/fulltext/ED610667.pdf
- Lombardi, D., Shipley, T. F., Bailey, J. M., Bretones, P. S., Prather, E. E., Ballen, C. J., Knight, J. K., Smith, M. K., Stowe, R. L., Cooper, M. M., Prince, M., Atit, K., Uttal, D. H., LaDue, N. D., McNeal, P. M., Ryker, K., St. John, K., van der Hoeven Kraft, K. J., & Docktor, J. L. (2021). The curious construct of active learning. *Psychological Science in the Public Interest, 22*(1), 8-43. <u>https://doi.org/10.1177/1529100620973974</u>
- Lugosi, E., & Uribe, G. (2022). Active learning strategies with positive effects on students' achievements in undergraduate mathematics education. *International Journal of Mathematical Education in Science and Technology*, 53(2), 403-424. <u>https://doi.org/10.1080/0020739X.2020.1773555</u>
- Malvik, C. (2020). Acknowledging the importance of faculty training and development. https://collegiseducation.com/insights/enrollment-growth/importance-of-faculty-trainingand-development/
- Master, A. H., & Meltzoff, A. N. (2020). Cultural stereotypes and sense of belonging contribute to gender gaps in STEM (ED605235). ERIC. *International Journal of Gender; Science and Technology*, *12*(1), 152-198. <u>https://files.eric.ed.gov/fulltext/ED605235.pdf</u>
- Mathematical Association of America. (2022). *Conversations for the math community: Equity in action* [Webinar series]. <u>http://info.maa.org/pages/1780913/23513</u>
- McNair, T. B., Bensimon, E. M., & Malcom-Piqueux, L. (2020). From equity talk to equity walk: Expanding practitioner knowledge for racial justice in higher education. John Wiley & Son. <u>https://doi.org/10.1002/9781119428725</u>
- National Center for Educational Statistics (NCES). (2022, April 26). A majority of college students with disabilities do not inform school, new NCES data show [Press release]. https://nces.ed.gov/whatsnew/press_releases/4_26_2022.asp
- National Organization for Student Success. (n.d.). *Equity, access and inclusion network*. <u>https://thenoss.org/EAI-Network</u>
- Ogunyemi, D., Clare, C., Astudillo, Y. M., Marseille, M., Manu, E., & Kim, S. (2020). Microaggressions in the learning environment: A systematic review. *Journal of Diversity in Higher Education*, *13*(2), 97-119. <u>https://doi.org/10.1037/dhe0000107</u>

- Penner, M. R. (2018). Building an inclusive classroom. Journal of Undergraduate Neuroscience Education, 16(3), A268-A272. <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6153021/</u>
- Purnell, R. D., & Burdman, P. (2022). Solving for equity in practice: New insights on advancing college opportunity and success. *Notices of the American Mathematical Society*, February, 249-251. <u>https://www.ams.org/journals/notices/202202/rnoti-p249.pdf</u>
- Rainey, K., Dancy, M., Mickelson, R., Stearns, E., & Moller, S. (2018). Race and gender differences in how sense of belonging influences decisions to major in STEM. *International Journal of STEM Education 5*(10), 1-14. <u>https://doi.org/10.1186/s40594-018-0115-6</u>.
- Rizki, L. M., & Priatna, N. (2019). Mathematical literacy as the 21st century skill. *Journal of Physics: Conference Series*, 1157(4), 042088. <u>https://doi.org/10.1088/1742-6596/1157/4/042088</u>
- Solórzano, D., Ceja, M., & Yosso, T. (2000). Critical race theory, racial microaggressions, and campus racial climate: The experiences of African American college students. *Journal of Negro Education*, 69(1/2), 60-73. <u>https://www.jstor.org/stable/2696265</u>
- Souza, T. (2018, April 30). Responding to microaggressions in the classroom: Taking ACTION. *Faculty Focus*. <u>https://www.facultyfocus.com/articles/effective-classroom-management/responding-to-m</u> <u>icroaggressions-in-the-classroom/</u>
- Staats, C. (2015/2016). Understanding implicit bias: What educators should know. *American Educator*, *39*(4), 29-33, 43.
- Stretch, L. S., & Osborne, J. (2019). Extended time test accommodation: Directions for future research and practice. *Practical Assessment, Research, and Evaluation*, 10(1), article 8. <u>https://doi.org/10.7275/cs6a-4s02</u>
- Sue, D. W. (2010). *Microaggressions in everyday life: Race, gender, and sexual orientation*. Wiley.
- Sue, D. W., Alsaidi, S., Awad, M. N., Glaeser, E., Calle, C. Z., & Mendez, N. (2019). Disarming racial microaggressions: Microintervention strategies for targets, White allies, and bystanders. *American Psychologist*, 74(1), 128-142. <u>https://doi.org/10.1037/amp0000296</u>
- Sue, D. W., Capodilupo, C. M., Torino, G., C., Bucceri, J. M., Holder, A. M. B., & Nadal, K. L. (2007). Racial microaggressions in everyday life: Implications for clinical practice. *American Psychologist*, 62(4), 271-286. <u>https://doi.org/10.1037/0003-066X.62.4.271</u>
- Souza, T. (2018). Responding to microaggressions in the classroom: Taking ACTION. *Faculty Focus: Higher Ed Teaching & Learning.* <u>https://www.facultyfocus.com/articles/effective-classroom-management/responding-to-m</u> <u>icroaggressions-in-the-classroom/</u>
- Theobald, E. J., Hill, M. J., Tran, E., Agrawal, S., Arroyo, E. N., Behling, S., Chambwe, N., Cintrón, D. L., Cooper, J. D., Dunster, G., Grummer, J. A., Hennessey, K., Hsiao, J., Iranon, N., Jones II, L., Jordt, H., Keller, M., Lacey, M. E., Littlefield, C. E., ... & Freeman, S. (2020). Active learning narrows achievement gaps for underrepresented students in undergraduate science, technology, engineering, and math. *Proceedings of the*

National Academy of Sciences, *117*(12), 6476-6483. https://doi.org/10.1073/pnas.191690311

- U.S. Department of Education (U.S. DoE). (2016). Advancing diversity and inclusion in higher education: Key data highlights focusing on race and ethnicity and promising practices. https://www2.ed.gov/rschstat/research/pubs/advancing-diversity-inclusion.pdf
- Williams, M. T., Kanter, J. W., Peña, A., Ching, T. H. W., & Oshin, L. (2020). Reducing microaggressions and promoting interracial connection: The racial harmony workshop. *Journal of Contextual and Behavioral Science*, 16, 153-161. <u>https://doi.org/10.1016/j.jcbs.2020.04.008</u>