UNIVERSITY SENATE
Meeting Minutes
November 18, 2024

The University Senate was called to order at 3:30 p.m., in 111 Harrison Hall on Monday, November 18, 2024. Members absent: Cheryl Chafin, Darrel Davis, Kelsey Ellis, Chip Hahn, Nya Hodge, Patrick Houlihan, Peter Mkhatshwa, Sam Morris, David Motta, Nelchi Prashai, Elise Radina

Two Minutes Speech: From Senator Cathy Wagner **(Attachment A/pg. 15)**

1. **<u>Call to Order and Announcements and Remarks</u>** – Rosemary Pennington, Chair of University Senate Executive Committee
   a. We all know the challenges higher education faces. After the recent state and federal elections, the challenges only continue to grow.
   President-elect Donald Trump has said he wants to dismantle the Department of Education (DOE). DOE manages the federal financial aid system – including Pell Grants – and administers programs such as the Title VI area studies center grants and Title IX, which supports gender equity in education and scholastic athletics. Trump has also said that the accreditation process for higher education needs to change – something we should all be concerned about as Miami faces re-accreditation this fall.
   The president-elect has also suggested the federal government is too large and inefficient and is looking to cut spending – this means that organizations that fund academic research such as the National Science Foundation and the National Endowment for the Humanities may have their grantmaking abilities curtailed, which means our ability to conduct the research we feel ever more pressure to produce may be stymied.
   At the state level, we await speaker of the house elections as lawmakers prepare to seat the new legislature. Depending on how that election goes, we may be facing down a worse version of Senate Bill 83 come January.
   As a reminder, University Senate is "the legislative body of the University in matters involving educational programs, requirements, and standards; faculty welfare; and student conduct."
   That work has never been more important, or perhaps more difficult. I thank you for your continued service to Senate and to Miami and urge you to take seriously our role in shared governance at this institution.
   b. Miami University lost a believer in the importance of shared governance this weekend. Dr. Phill Alexander, a faculty member in Emerging Technology in Business Design, passed away last night after entering hospice for terminal cancer. I'd like to ask for a moment of silence to recognize this loss to our community.
   Phill and his wife have been active members of the Miami community and have been active in FAM from the very beginning.
   This weekend, President Crawford visited the Alexanders in their home – with Dr. Heidi McKee – to award Phill the President's Medal for his outstanding work and service to Miami. The award noted that Phill "was a trailblazer in collegiate e-sports" and that Phill's work on the program is one reason it has gained national recognition.
   Julie Phill's wife has said there will be a celebration of Phill's life sometime in the spring and a scholarship is in the works to honor Phill's legacy at Miami. May his memory be a blessing.

i. Professor Phill Alexander Memorial Fund to provide scholarships to students interested in gaming - TINYURL.COM/PHILL-ALEXANDER-FUND - url code provided in the slideshow presentation.

2. **Approval of University Senate Minutes**
   a. University Senate Full Meeting Minutes_11.04.2024 (Results: 49-Yes, 00-No, 01-Abstain)

3. **Consent Calendar:** The following items were received and accepted on the Consent Calendar:
   a. Curricular Items 11.06.2024
   b. Graduate Council Minutes 11.05.2024
   c. LEC Meeting Minutes 11.29.2024

4. **Provost Update**
   a. It was an honor to know Phill. He was really impactful in the Games program at Miami, not just the esports team or curriculum, but also our games major which is super important to the College of Creative Arts. The president did present him with that medal of honor. This is sad for all of us.
   b. Miami Online is trying to get away from using PackBack (a Canvas integration); right now there is no plan for a new AI software that would be used for grading.
   c. Our contract with Canvas will remain the same despite new ownership.
   d. The Lilly Conference is this week, we are very excited to welcome so many scholars and teachers to campus for that wonderful event.
   e. Howe is offering an AI Pedagogy Certificate in the spring. I encourage everyone to learn more about that.
   f. Fair Standard Labor Act:
       i. Dawn Fahner: Some of you may have heard in the human resources phase one of the major pieces of compliance that we monitor is the Fair Labor Standards Act (FLSA) and there has been a change to the salary threshold and that was tied to determining whether or not a position is exempt or non-exempt. Meaning are they eligible for overtime pay or not? That was scheduled to go into effect on January 1st, late Friday afternoon there was a district court ruling out of Texas that struck down that change. What this does is that it pauses further actions to that change for January 1st and we will continue to monitor and we are not sure what to expect at this time. We will continue to communicate information as we learn more information.
   g. Question and Answer:
       i. Senator: I know that this paused right now but, what was that threshold going to be? (A) The annual salary would have been $58,656 and the Department of Labor factors that at a weekly amount of $1,126 if I recall that correctly off the top of my head. Which was raised from the $35,508 threshold.

5. **Special Report**

a. Introduction and Update on the College of Creative Arts, Ryan Fisher, Dean and Professor of the College of Creative Arts
   i. One of my first priorities is looking at existing curriculum and degree programs and seeing how we can be more efficient in certain areas. We are looking at how we can bring majors together in what I call nesting.
   ii. Major revision to the BA in Studio Art degree. Revised core with the creation of three concentrations; studio art, art history, and fashion design.
      1. Allows for future growth of programming through new concentrations without creating an entirely new major
      2. Retains an art history offering with the close out of the BA in Art and Architecture History that now has 40 majors.
      3. Allows us to recruit new students interested in majoring in fashion design (not removing the fashion co-major since design is only a part of that co-major)
   iii. All changes allow for more flexibility for students, including a required business-related course in the core, and still leave 30-40 hours for students to pair their degree with other coursework, minors, co-majors, etc. which meets the "interdisciplinary nature" of all BA degrees should include
   iv. This will become the model of future degree changes we are prioritizing in the CCA. More nesting of degrees through concentrations with fewer overall degree programs.
   v. We have asked for advising paths for students to see different pathways.
   vi. Senator Question and Comments
      1. Senator: Can you talk about New fashion design? About where it is going and if we are hiring faculty for that? (A) No, it is nesting in that co-major so we do not have to create any new courses or hire any new faculty. All of this is more neutral.
      2. Senator: So it is a co-major becoming a major? (A) No, the co-major will remain intact.
      3. Senator: Do you imagine the revised BA will attract new students to CCA? (A) Yes, the flexibility and the ability to have that fashion design on their transcript will also attract new students.
      4. Senator: Have your faculty seen these revisions? (A) Yes, it has been approved by the department, and the CCA review committee. I also just saw it in CIM, so hopefully we will get it approved in CIM next.
b. Campus Planning Committee, Kelly Knollman-Porter, Chair, and David Prytherch, Professor of Geography
   i. Campus Planning Committee Charge
      1. The function of the Campus Planning Committee is to represent the University in the process of planning and maintaining the physical plant of the institution in order to ensure that the environment and facilities are appropriate to the University's mission.

2. The Committee shall review Campus Planning Project Requests (required for an alteration in the exterior campus environment and for major alterations to campus building interiors); review proposed capital improvement priorities; and review, adopt, and update periodically a set of Patterns that serve as design guidelines for any campus planning project.

3. The Committee shall report both to University Senate and to the senior administration, namely to the President, the Provost, and the Vice President for Finance and Business Services.

    ii. 2024-25 Membership

1. Chair, Kelly Knollman-Porter (SPA)
2. Senate Liaison, William Moser (FSB)
3. Membership includes representatives from:
   a. Architecture and Interior Design
   b. Farmer School of Business
   c. Geography
   d. IT Services
   e. Classified Staff
   f. Graduate and Undergraduate Students
4. Robert Bell (Campus Architect, PFD), Ex-Officio

    iii. Current Planning Documents: Campus Exterior Space and Landscape Master Plan (2004?) - Map included in Slideshow presentation

    iv. "In order to ensure site improvements to the highest standards, a site improvement review process will continue under the auspices of the University Senate Committee on Campus Planning. Landscape projects of all sizes and types will be reviewed by the Committee."

    v. Without some process for review, the accumulation of small improvements, replacement, and repair projects can collectively degrade the campus environment.

    vi. Campus Exterior Space and Landscape Master Plan

    vii. Campus Heritage Plan (2008)

1. Miami University Campus Heritage Plan
   a. Prepared by: Jeffrey Darbee and Nancy Recchie, Benjamin D. Rickey & Co., Judy Williams, Historic Preservation Consultant, Robert D. Loversidge, Jr., FAJA, Schooley Caldwell Associates in July 2009

    viii. Miami University Campus Exterior Lighting Master Plan Oxford Campus October 2009 - Provided in Slideshow presentation

    ix. Stormwater Management Overlay (2011)

    x. Housing and Dining Master Plan (2011)

    xi. Campus Circulation Master Plan (2011)

    xii. Utility Master Plan and Net Zero Update (2022)

xiii. Climate Action Plan (2024)

xiv. Miami has many sectoral plans, but no master plan framework to align them (or align with institutional strategic planning) MiamiTHRIVE (2024-25)

xv. CPC 2022 Recommendation "that Miami University establish a long-term, strategic, Campus Master Plan"

xvi. Administration Response "If the University was anticipating a rapid expansion or change in any of its campuses, a major update to these planning documents would be necessary…."

xvii. Proposed, Major Campus Projects - Map included in the slideshow presentation
1. The above is a 2012 Study of potential available sites for new projects
2. The CPC was informed at a recent meeting that Cook Field is a potential site for the hotel.
3. No decisions have been reached on future project sites as of November 2024

xviii. Priority Landscape
1. "While it is the intent of this Campus Exterior Space and Landscape Master Plan to enhance the quality of all outdoor spaces on campus, some spaces are deserving of special attention due to their unique characteristics, their historical significance, and/or their importance to the image of the University. These spaces represent the identity of the institution and, as such, will be treated with the highest level of care and maintenance. - Slant Walk Green - The Rectangle Quad - The Hub - Bishop Woods".

xix. CPC 2024 Recommendations
1. We reiterate the need for a long-term, strategic, comprehensive Campus Master Plan that will provide a framework for campus development decision-making while allowing for flexibility and growth.
2. Stakeholders and the community should be better engaged in planning and decision-making.
3. Miami should proceed with major campus projects only with the utmost caution to ensure they are supported by updated planning and a robust planning process.

xx. Senator Question and Comments
1. Senator: What is the pathway for this set of recommendations for who is going to be reviewing and deciding on them etc.? (A) I sent recommendations to the President, Dr. Creamer, the Provost, and Senate as those are the reporting lines of the committee and we can only make recommendations.
2. Senator: Do you know if the university has spoken to students and got them involved in these proposed changes as they would affect student life? (A) I think that the planning committee level is transparent at the

committee level. We can only speak to the committee level as we are not sure about the other levels.

3. Senator: How much would it cost to create? (A) It is hard to say, I would say potentially it is probably about 100,000 to 200,000. It depends on how detailed you want the plans and what you are asking for.

4. Senator: How were you informed and did they follow the appropriate process? (A) The hotel was brought to us and it was intended close to Millett Hall and they did tell us that hotel developers requested to open up additional sites that might be more attractive. When we learned about the Cooked field we asked them to look at other options. We were not told about the arena, but we asked for additional information.

5. Senator: Don't we already have a hotel? What is going on with that? (A) The university has decided they don't want to be in the hotel business. I don't blame them. They wanted to offer it to a private hotel organization to run it.

6. Senator: What would become of the hotel that we have? (A) I don't know. I can not comment on that.

7. Senator: It seems like a mess since they don't have a real plan and that is frustrating.

8. Senator: The information about the hotel and arena are really separate. We have had a request for a proposal out for the hotel for a long time and it hasn't gotten any attraction. I believe since around 2020 that has been out. I think there is a process. The ideas behind the arena were not ready to be shared because it is so early in the process. There is a press release about that in Miami Matters from a few weeks ago that talks about why they are sharing it now. I think with all the plans that you mentioned that having more specific plans for specific areas can be more agile and move more quickly and that is why they have never wanted to do a master plan like other universities do, but will have a meeting with Dr. Creamer to discuss this further with him. (A) I think your priority can come into conflict with one another. So how do you make sure all these things align with each other while protecting historic things? We want to make sure that it is a good long-term decision, so that we share a vision for the campus.

9. Senator: Do other institutions have plans? We pride ourselves in our beautiful campus and we want to preserve that. (A) Yes, other institutions do have a master plan, but not all have them.

6. **New Business**
   a. Sense of the Senate Resolution on Campus Planning Recommendations, Rosemary Pennington, Associate Professor in the Department of Media. *Presentation only; Discussion and Anticipated Vote on December 02, 2024*

i. Whereas we as representatives of the Miami community recognize the importance of the Oxford campus's natural and manmade beauty to recruitment efforts; Whereas we believe in the importance of preserving some campus spaces for their historic value and out of our sense of environmental responsibility; Whereas we also recognize the importance of developing campus to meet the needs and expectations of a changing university community; Whereas we understand that the last Miami University campus master plan was developed more than twenty years ago; Whereas this body has charged the Campus Planning Committee of University Senate with reviewing project request, proposed capital improvements, and patterns to serve as design guidelines; Whereas University Senate, made up of representatives from across campus, has a deep commitment to the principles of shared governance; We, the members of the Miami University Senate, endorse the recommendations of the Campus Planning Committee and urge the administration to adopt them before engaging in any further large scale campus development.

ii. Senator Question and Comments

1. Senator: This is the first time that I have really understood the relationship between the Senate and this committee. It seems to me that the Slant Walk and Cook Field are significant areas of campus and probably should remain untouched. I know that I am not a decision-maker in that, but we should probably be in a better long-term more consistent relationship with them. I think this Senate resolution would help with that. There is some political power in our shared governance, and would like to see communication through the next 2 years.

2. Senator: I support the resolution. This is still a public university, where there should be a robust process for decision-making about public space, with input from students, faculty, and the community. Also, there is a concern about where the money comes from. The arena is auxiliary budget (athletics) — which means student fees. So this decision affects students' experience and students' pocketbooks directly. The conversation should start and end with students, they should not be an afterthought. Also, it is ironic that management has been refusing cost-of-living raises to the faculty and librarians who serve our academic mission, while planning to spend potentially hundreds of millions of student dollars on projects unrelated to the mission that would rip up historic greenspace. (A) My understanding is not being paid through axillary. That auxiliary is dorms and dining. That is an absolutely high priority through fundraising. By raising money through donors/ fundraising. Millett has over 83 million in deferred maintenance. There isn't an account that fixes that amount of maintenance on the buildings,

so I am sure there is some offsite of funds from the university, but my understanding is that they are trying to fundraise for this.

3. Senator: Auxiliaries are housing, dining and sports. We would likely need to borrow and student fees are how we pay for borrowing. (A) I didn't think that auxiliary was over sporting facilities, so I will check on that and report back.

4. Senator: Millett is unstainable in the long term and the economics of this is not going to be positive given our location and lack of ability to get concerts and things. A lot of it is how much can be privately fundraised. I believe that it is a chicken-and-egg scenario where you have to announce the plan to get people excited. In terms of dollars and cents, it is a tough sale, but that doesn't mean that it is something bad for the institution and to be fair this is needed given the state of Millett.

5. Senator: This is probably an unpopular opinion. Our aspiration to match our facilities and growth of so many different programs when our hands are tied here in Oxford by not having the ability to hold major conferences that would have the ability to bring people in. From my corporate experience, the idea of outsourcing a hotel and conference center and not having it being a burden to a lot of other programs we should allow a major corporation to do that for us.

6. Senator: This is an opportunity for us to restore an aspect of shared governance that has degraded over time mainly because of workload and everything else. We have a lot of expertise in this room and when we commit to something like an arena we need to have that forward thinking. This is a good reminder that we are ready and willing to have this conversation and to build consensus around something that could be very exciting opportunities for growth that faculty, staff and students should be consulted on and this is the primary body in which to do that.

7. Senator: Speaking of the resolution, the ideal of process and procedure independent of the merit of the individual project itself and so I think the resolution speaks to the process and how things should be decided. Then, hopefully, that will speak to the merit in the projects that are to come.

8. Senator: I think that the biggest issue here is not only these spaces, but maintaining the beauty of the campus. This campus is one of the most lovely campuses I have been on in all of my years, so by not having this longer plan it puts it at risk of destroying the very thing that makes this campus what it really is and that is why I support this.

b. BS in Quantum Computing, Beena Sukumaran, The Dinesh & IIa Paliwal Dean of the College of Engineering & Computing. The curriculum document can be accessed at https://nextbulletin.miamioh.edu/programadmin/ - click on 'title' and type **'Quantum Computing*'** in the Search section. Click on 'Quantum Computing - Bachelor of Science in

Quantum Computing ' - *Presentation only; Discussion and Anticipated Vote on December 02, 2024*

    i.   Senator Question and Comments

          1. Senator: How much of our ability to offer this major depends on the relationship with Cleveland Clinic? (A) While the CC relationship is extremely valuable, the only thing that depends on it is access to the Cleveland Clinic Quantum Computer. IBM's quantum computing software development kit, Qiskit, is in the public domain, as are quantum computer simulators that run on traditional computers, so the entire curriculum can be offered without Cleveland Clinic. The relationship with Cleveland Clinic is extremely valuable not only for CEC but the whole university. There are many opportunities for collaboration across disciplines. The development of the degree allows for this relationship to start on solid ground, without which there was no incentive for Cleveland Clinic to seek out a partnership with Miami.

          2. Senator: I think you have a very interesting degree program and would agree that we can get ahead of the curve on this and avoid being left behind. I believe you noted that this program is focused on the software side of things, will we need a quantum computer on campus or do we have arrangements likely in place to get computer time on the one at Cleveland Clinic or elsewhere? If we need our own, how much will that cost and where will that funding come from? The curriculum structure slide lists 91 credit hours of non-Miami Plan credits. Because the slide specifies these as "non-Miami Plan" I am assuming that these courses don't double-dip with Miami Plan (if they do double-dip, can you please provide an accounting of what courses do count in the major and in MP). The current Miami Plan has 39 hours in perspective hours, 9 in signature inquiry, and 3 in knowledge in action (capstone), and that sums to 51 hours; however, the slide also indicates "With Miami Plan (Liberal Education) Course Credit Hours, the total is 124". When I add these up, again noting that your slide indicates non-Miami Plan, that total 142 credit hours. Even if we count the capstone as MP CP, that still hits 139 credit hours. Can you provide a more detailed explanation of the curriculum and how you arrived at the claim of "With Miami Plan (Liberal Education) Course Credit Hours, the total is 124"? My concern here is advising related, this appears to leave virtually no room for error for students and, if say a class that did double-dip were full, students could very well fall behind and not graduate within 4 years.(A) We do not need a quantum computer on campus. We can use the one at CC. However, with IBMs software development kit, Qiskit, and quantum computer simulator, which run on traditional computers, the curriculum doesn't strictly need an actual quantum computer. The math and

science courses in the core curriculum satisfy 9 cr hours of the Miami Plan requirements for math/formal reasoning (3 cr hours) and natural science (6 cr hrs). The core requirements do not include the remaining 30 credit hours of the Perspective Areas: 3 English/composition, 3 Advanced Writing, 3 Humanities, 3 Creative Arts, 6 Social Sciences, 9 Global Citizenship.

3. Senator: Has the program gone through the Academic Program Incubator Process? What are the complete projected costs and resources needed to start the program? What will the yearly recurring costs be for both staffing and equipment/infrastructure? What is the projected income from tuition and other revenue sources?(A) No, we did not because we had to develop a new degree program in a hurry to meet the partnership goals with Cleveland Clinic and meet the October 15 deadline for state budget requests. There are also no degree programs in the space anywhere and therefore MAPI would have not given us much information. We're starting with the resources we already have. Current recruitment efforts are replacing faculty who retired or left Miami. We will be using CC's QC and the current computing infrastructure is sufficient to initiate the program. Adding staffing or infrastructure beyond the current level depends on state funding, which we are seeking to acquire in the next state budget cycle.

4. Senator: Is there any concern about being able to hire faculty with expertise in quantum computing? How many PhDs in quantum computing are on the job market? (A) It is definitely an area of concern but we already have a few who have expertise in the area. We are also in touch with universities that have folks who work in the topic area and we are confident we can find the talent.

5. Senator: What is the need for a whole new BS degree? Why not start with a Minor in Quantum Computing to just student interest and if popular use that for justification for a new major?(A) The BSQC is a specific request of CC and we have been able to garner support at the state level during initial conversations. It positions Miami ahead of what will be a huge bandwagon. Offering a BS degree in Quantum Computing, rather than only a minor, is essential due to the specialized and comprehensive skill set required for graduates to thrive in this emerging field. Depth of Knowledge and Specialization: Quantum computing demands deep expertise across multiple domains, including quantum mechanics, algorithms, cryptography, mathematics, and fundamental computing principles. These areas require more thorough exploration than a minor can provide. A BS degree offers the structured curriculum necessary to develop proficiency in these core areas. Preparation for Advanced Study and Research: A BS degree provides the rigorous and

in-depth foundation necessary for students to pursue graduate studies and research roles in quantum computing.

6. Senator: Does it make sense to have a BS in Quantum Computing without a quantum computer on Campus? (A) A BS in Quantum Computing does not require a Quantum Computer on campus. We already have faculty in CSE who have graduate students working on research in protein folding using Quskits (IBM's quantum computing language). We will have access to the Quantum Computer at Cleveland Clinic through the Cloud. Also, see the response earlier to a similar question.

7. Senator: This seems like an expensive initiative in CEC. In the current budget crunch, does it make sense to invest here when other departments/majors/initiatives in CEC could be strengthened?(A) The initiative is being funded through existing vacancies in CSE and also through hopefully new funding through the state. If we were to wait for this, we would not be able to be the first to provide us with a competitive advantage over other universities and also jeopardize an extremely valuable partnership with Cleveland Clinic. There are two budgets in the system, one shows that we will be budget-neutral in a year using existing vacancies in CSE. No other positions are being utilized for this option. The second budget is the request for state and other sources of external support to build out a Quantum Computing Institute. This is the more expensive budget you refer to because we had only provided this budget initially. That is purely with external funding that supports additional lines.

8. Senator: The neuroscience faculty in PSY are interested in learning more about how neuroscience may be involved. Who should they contact?(A) Neuroscience is included as a concentration. Liran Ma would be the person to contact.

9. Senator: This is an exciting opportunity! Quantum computing isn't just the future—it's changing the game right now. Imagine if every engineering major got to take at least one course covering the basics, with hands-on projects tailored to each department. Biomedical Engineering could, for example, tackle a health-related project that students then test on a real quantum computer. Establishing a quantum computing center for teaching and research would put us on the cutting edge, and adding a second lab to demo quantum sensing, interference, and entangled photons would give students direct experience with the tech that's shaping tomorrow. It's worth a significant investment to make this vision a reality and lead the way in this transformative field.(A) Thank you for your support!

10. Senator: Why is Miami pursuing a Quantum Computing Major? (A) Strategic Positioning: Quantum computing is a high-growth, emerging field with transformative potential in various industries. Establishing Miami as a pioneer in undergraduate quantum education positions the university as a leader in innovative STEM fields, attracting high-achieving students and fostering partnerships with industry leaders like Cleveland Clinic. Growing Demand for Talent: According to market analyses, the quantum workforce is projected to grow significantly over the next decade, with a pressing need for professionals trained in both the theoretical and practical aspects of the field. Miami aims to prepare students to meet this demand early. Interdisciplinary Collaboration: A quantum computing degree builds bridges across various departments, enhancing the interdisciplinary strengths of Miami's academic programs and providing students with a unique, integrative education.

11. How will we implement the major at the BS level when the technology is still being developed? (A) The program will emphasize the foundational aspects of software development for quantum computing-based applications. These skills are transferable to adjacent fields and will remain highly relevant as quantum technology continues to advance.The curriculum will integrate applications where quantum computing principles are already making an impact, such as quantum-inspired algorithms for optimization and AI, giving students market-relevant skills even before the technology matures.

12. How many faculty will need to be hired to teach the curriculum in quantum computing? (A) Currently, the department has one faculty member with expertise in quantum computing. Additionally, two other faculty members have related experience in QC and are willing to expand their skills in this area. We also plan to hire new faculty with QC expertise in this year's search.

13. What courses would be in the curriculum? (A) The curriculum includes a core of 15 credit hours in Quantum Computing, paired with a minimum 18 credit hours in the chosen track. Additionally, the program includes 21 credit hours in Mathematics and Physics, 15 credit hours in Fundamental Computing, and courses in AI/ML, Cybersecurity, and Entrepreneurship to ensure a broad technical foundation. Students also complete a Capstone project (3 credit hours) to apply their knowledge in real-world contexts.

14. How would it be different than, say, computer science degree? (A) The BS in Quantum Computing includes foundational computer science courses but adds five quantum-specific courses and track options that provide depth in emerging quantum applications. The purpose of track courses is to equip Quantum Computing majors with the foundational

knowledge needed to apply quantum computing in their respective concentration areas.

15. Most importantly, would it be in the best interest of Miami students to enroll them in a quantum computing major at the BS level? Or should we encourage them to first learn, for example, computer science and/or electrical or computer engineering before they try to tackle quantum computing as an undergraduate major? (A) Pursuing a BS in Quantum Computing at Miami could be in the best interest of students who are eager to position themselves at the forefront of a rapidly emerging field with transformative potential. The program begins with foundational computer science courses, ensuring students build a strong base in programming, algorithms, and computational thinking, which are critical for success in both classical and quantum computing

16. Senator: Have you pursued a partnership with DOD? (A) We intend to pursue a partnership with the DoD due to national security implications and Sue McDowell is heading that effort.

17. Senator: Possibility of new international partnerships with Cleveland Clinic campuses around the world (A) Based on my interactions with Cleveland Clinic thus far, they have been open to collaborations that further both institutions' missions and goals. I would hope international partnerships are part of the collaboration. Cleveland Clinic also serves lots of patients from around the world and maybe that also opens up additional opportunities.

18. Senator: If this was a useful degree then why haven't any PHD or Master granting institutions that do quantum computing why haven't they created a BS in this? (A) There is a BS at the University of Pittsburgh. The reason may be that the technology is still evolving and people are nervous. That might be the reason. It is a risk, but I feel that it is a calculated risk.

19. Senator: What is the job potential for this degree be? (A) Writing programs to decipher or make a prediction. So a student with a quantum computer degree would be able to easily find a job in the future.

20. Senator: 20 students being proposed seems really high as we have other programs already not meeting their numbers. What have we done to meet that goal? (A) If you speak with Cleveland Clinic they will tell you that they can't find talent as it applies to AI applications to healthcare. That is why they reach out to us.

21. Senator: Can you speak about the external resources? How long is the Cleveland Clinic partnership and our relationship with them? (A) We have met with the governor's staff and they thought it would give Ohio an advantage. They were extremely positive, but there is a legislative

process in Ohio that everything will have to go through. We do have weekly meetings with Cleveland, when you look at Cleveland Clinic we have about 400 alumni so there is a strong pipeline there already, so there is a likelihood that we can maintain this partnership. The state has already dubbed Cleveland an Innovation Center and area because of this quantum computer, so they are already keen on maximizing that.

22. Senator: I have confidence in this. But let's say the worst-case scenario for this is that you lose access to the quantum computer. Do we have a backup plan if that happens? (A) What they use are simulators, so it will simulate the Quantum computer environment, so they could use that to teach these courses without actually having the quantum computer.

23. Senator: I am concerned about student interest. There was an offer for quantum courses in the fall, but they were closed due to low enrollment. So are we sure that it can make the jump to get the enrollment? (A) It was listed as an elective course, so by offering education for students on how to use it to benefit themselves in their careers will help make that jump.

24. Senator: Are you going to have a hardware plan in the future? (A) Yes, physics is meeting with computer science to decide on if they want to do it.

7. **Old Business**
   a. Ad Hoc Committee for MiamiTHRIVE Facilitation, Nathan French, Associate Professor and Lead Departmental Advisor, Comparative Religion; ***Discussion and Anticipated Vote on November 18, 2024***
      i. Tabled until December 2, 2024 meeting due to time constraints

8. **Adjournment**