



# MARYVILLE UNIVERSITY

## A DIGITAL WORLD





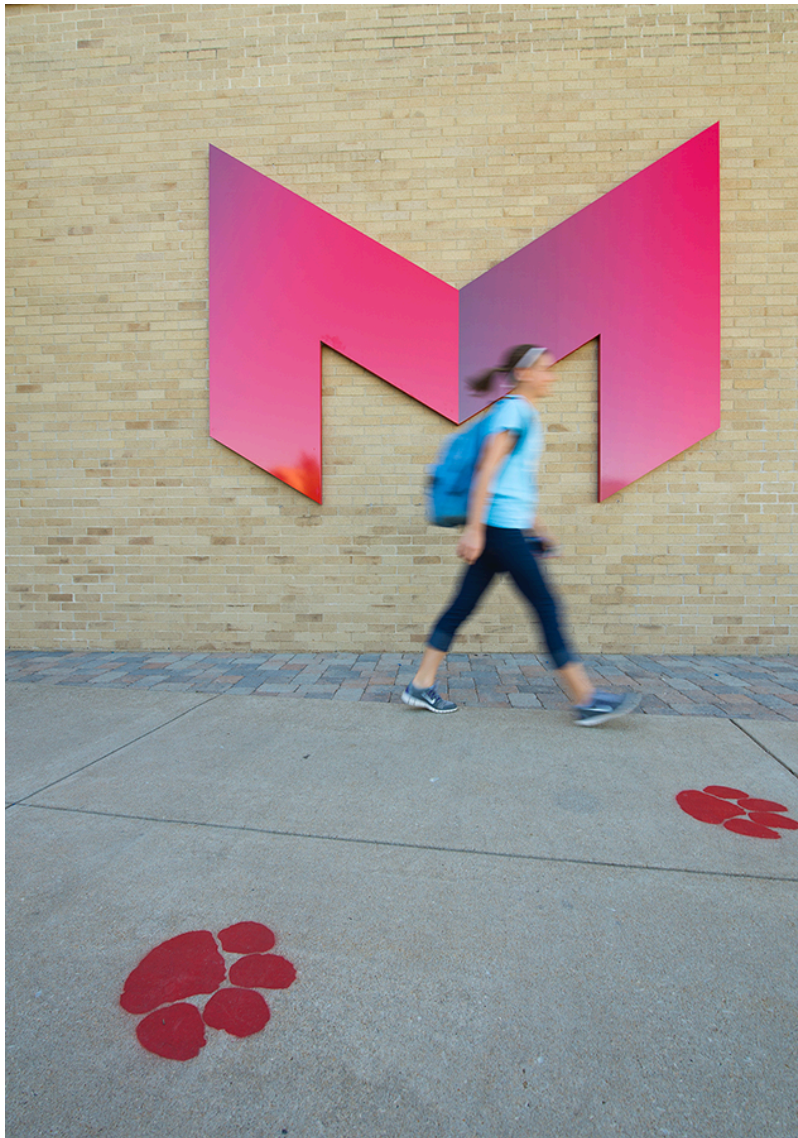


“Higher education is at a point of maximum disruption, with technology transforming the way education is delivered. This disruption will allow for a move away from warehouse learning to a truly personalized approach.”

– President Mark Lombardi, PhD



## ABOUT MARYVILLE



Founded in 1872, Maryville University is a nationally recognized private institution located just 20 miles west of downtown St. Louis. Maryville offers a comprehensive and innovative education, offering over 90 degree programs. Along with maintaining a student- faculty ratio of 14:1, Maryville focuses on student success by emphasizing a highly personalized approach to education. Key elements include learning diagnostics and life coaching for every first-year student on campus and the utilization of modern learning theory to ensure student success.

### Quick Facts

- Enrollment: 9,100
- Undergraduate Students: 3,600
  - Traditional Undergraduates: 2,700
  - Adult Undergraduates (Campus and Online): 900
- Graduate Students: 5,500
  - On-Campus: 960
  - Online: 4,540
- 50 states and 60 countries represented



# DIGITAL WORLD

To support student success in an ever-changing society, Maryville launched an iPad 1:1 (“Digital World”) in 2015. Digital World is a new model for higher education—a model focused on learning technology and data analytics to create a student-centered, accessible, affordable, academically rigorous and innovative learning environment. This initiative provides an iPad to all traditional undergraduate students and all graduate students in the programs of strategic communication and leadership, occupational therapy, speech-language pathology and rehabilitation counseling.

Recognized as Apple Distinguished School in 2016 and 2018.



*“Educators are more vital and salient than we ever were. But this is the crucial thing: we’re not vital as the keepers of content, holders of knowledge or judges of worth. Our centrality in the future is our unique ability to facilitate student learning for the young and old alike; to be co-creators of content with the student as partner.”*

– Mark Lombardi, PhD  
President







## Digital World Mission

Digital World is a campus-wide initiative that provides traditional undergraduate and select graduate students an iPad to engage them in a diverse, customizable and interactive learning environment.

### Digital World Goals:

- Promote and build digital literacy through academic work
- Use the iPad as a meaningful learning tool
- Identify and incorporate high quality digital learning materials
- Equip students and faculty with technology and level the playing field for all

## DIGITAL WORLD BY THE NUMBERS

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**3,000** students

**500** faculty and staff (all full-time faculty)

**100** adjunct faculty

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**3,500** iPads distributed





# Vision





President Mark Lombardi speaking about how Maryville University will lead the new revolution in higher education.



# STRATEGIC PLAN

Maryville's vision for the future of higher education is best summarized in our strategic plan, "*A New Century of Higher Education: 2015 – 2022.*"



## THEME 1 ACTIVE LEARNING ECOSYSTEM

Maryville University will create a campus-wide learning ecosystem with students at the center. This ecosystem will engage students, faculty, staff and community partners here and around the world in a continuous and sustainable process of active learning based on student outcomes.



## THEME 2 TRANSFORMATIONAL INNOVATION

Maryville will transform the development and delivery of higher education through a reengineering of pedagogy, processes and systems centered on student learning outcomes.



## THEME 3 DIVERSITY AND INCLUSIVENESS

Maryville University will become a diverse campus community that values inclusiveness through intentional student/faculty/staff recruitment, professional development and programming.



## THEME 4 STRATEGIC GROWTH

Maryville University will leverage and solidify its status as a leading national university by expanding programs to meet emerging market needs.





Maryville's strategic plan is a roadmap for disrupting higher education. The vision within the strategic plan is discussed openly and often, ensuring buy-in from all stakeholders. To bring this vision to life in the form of our iPad 1:1, Maryville University assembled the Digital World Realization Team. The committee includes members at the Vice President, Dean, Director and Manager levels from the Division for Student Success, Division for Operational Excellence, Finch Center for Teaching and Learning, Academic Technology, IT Services and faculty from each college and school.

Digital World is a truly collaborative effort between students, faculty and staff.

*"We use an organic partnership among committed faculty, life coaches and learning designers buttressed by learning diagnostics and data analytics to build an Active Learning Ecosystem that is personalized, tailored and distinct for every student learner and learning style."*

*- Mark Lombardi, PhD  
President*



# Learning

## STUDENT LEARNING

*"An ethos of pedagogical innovation permeates the Maryville community. Educators are tremendously committed to student learning - and technology is a proven invitation and inspiration to be even more powerful and imaginative communicators. The energy generated by these new approaches and opportunities undoubtedly resonates throughout the student and faculty experience."*

*- Cherie Fister, MFA  
Vice President, Academic Affairs*

The iPad has enabled Maryville University to revolutionize the passive model of education by moving to an active learning ecosystem, where the student is the central focus and hands-on learning with technology is built into the fabric of the curriculum. The iPad offers students a personalized learning approach and the freedom to learn anywhere, anytime. Simply put, the iPad enables students to develop the skills they need to be successful.





## STUDENT FEEDBACK



FREE TIME



A CLASSROOM OF 1



MOBILITY



CREATIVITY



DIGITAL LITERACY



PRODUCTIVITY



CONNECTIVITY



TECH SUPPORT





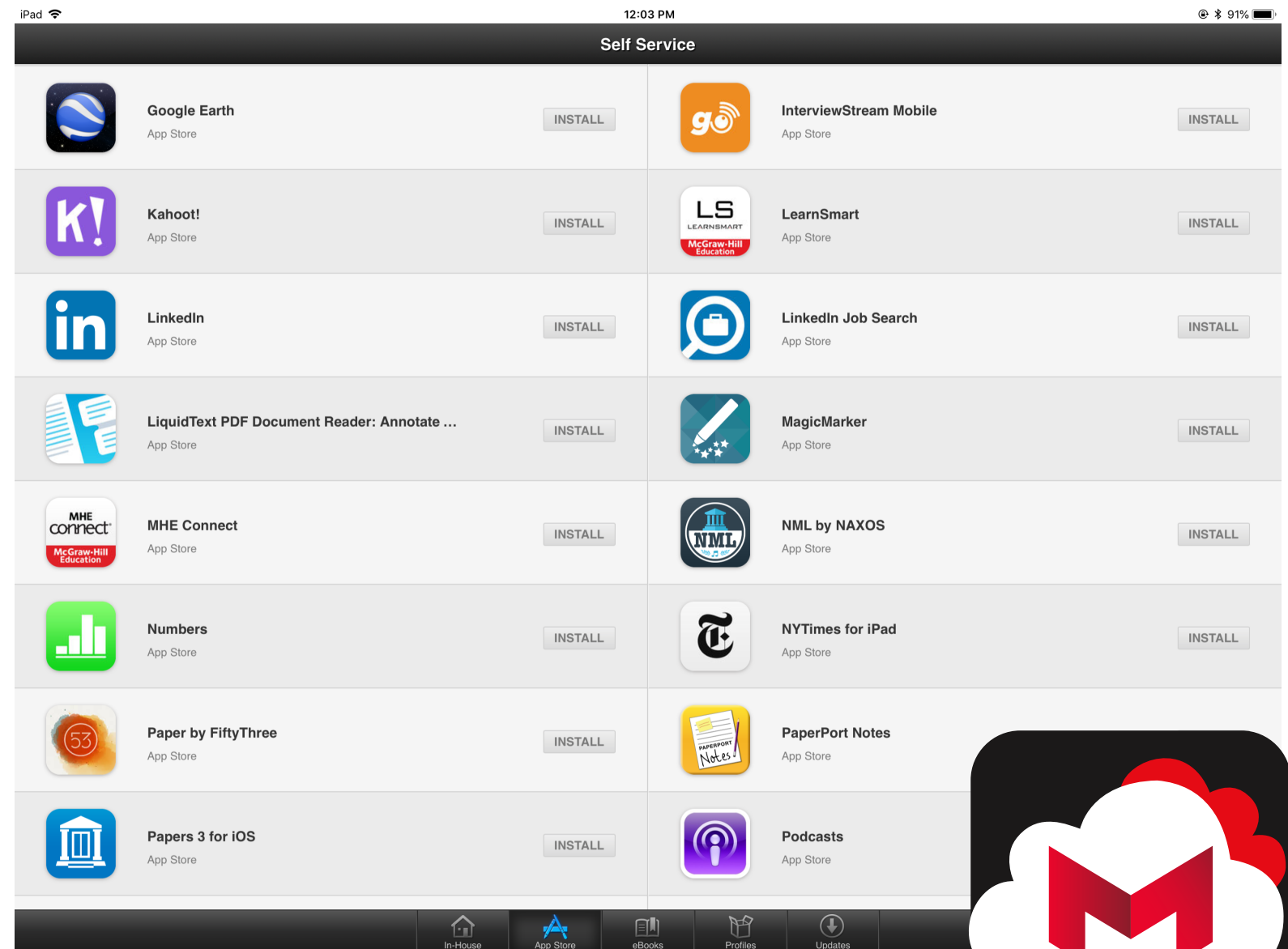
## How Maryville Personalized Learning

### Maryville Cloud

Every iPad on campus comes with access to the Maryville Cloud, a curated list of 150+ apps designed for teaching and learning.

### Discipline Specific Apps

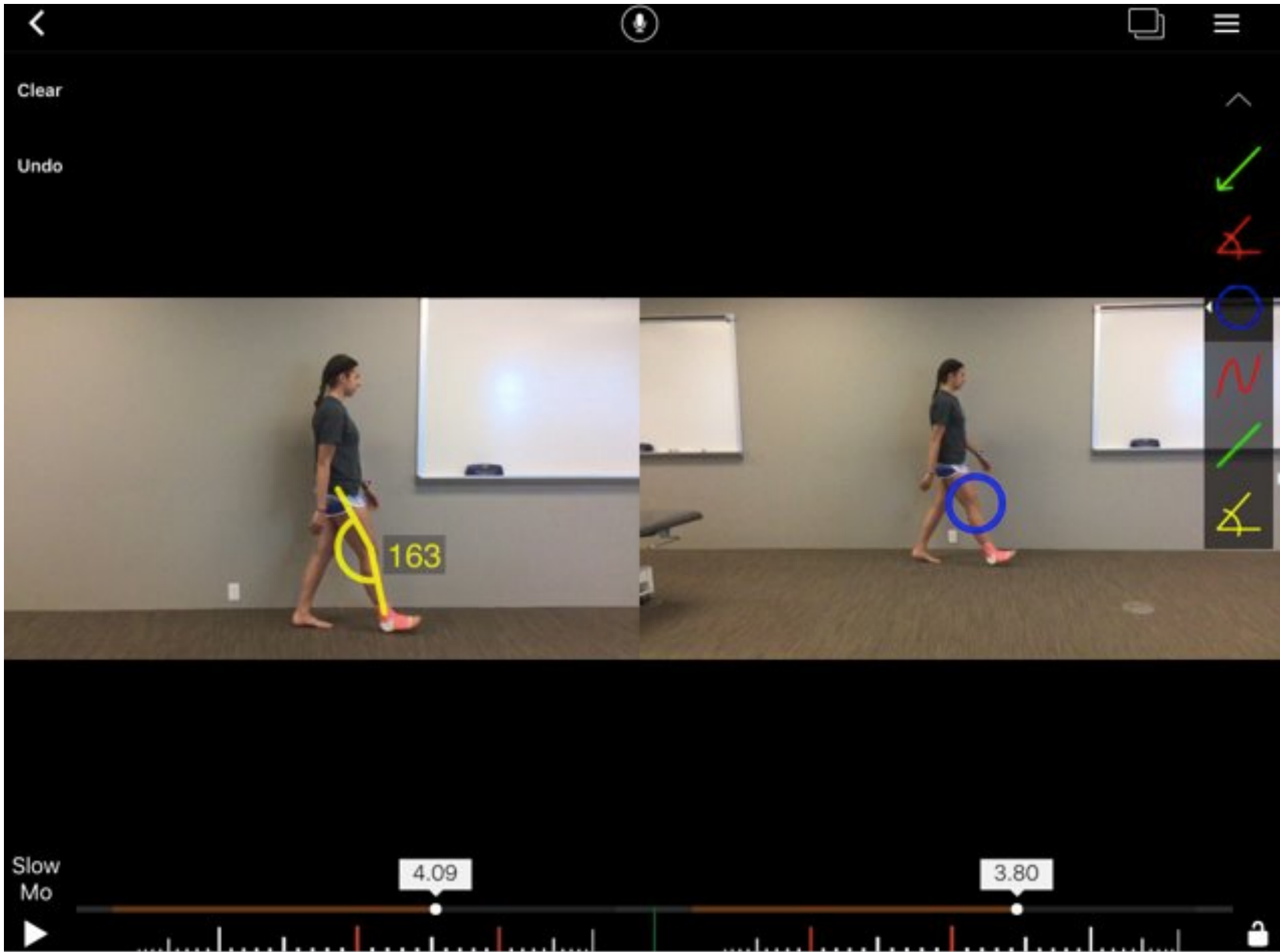
Of the 150+ free apps, 55 are pushed to the iPads of students enrolled in specific programs and courses. This enables Maryville University to truly personalize each student experience by providing them with access to leading-edge software that can be used anywhere, anytime.



Maryville Cloud

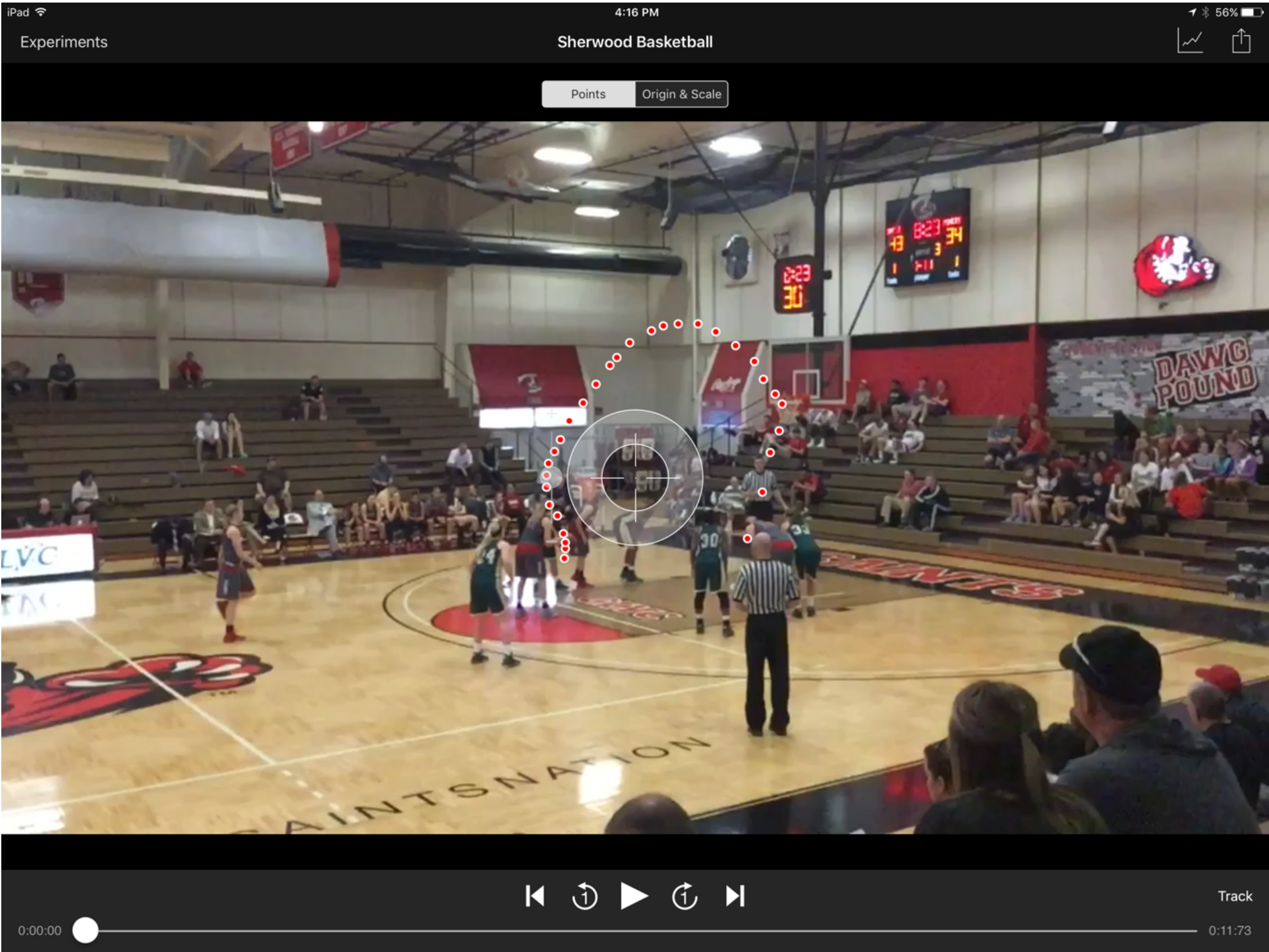


Discipline Specific Apps



Students use the Huddle Technique app to analyze gait in a physical therapy lab.

Discipline Specific Apps



Students use the Video Physics app to capture moments in real time and run complex physics simulations to determine gravity and velocity.

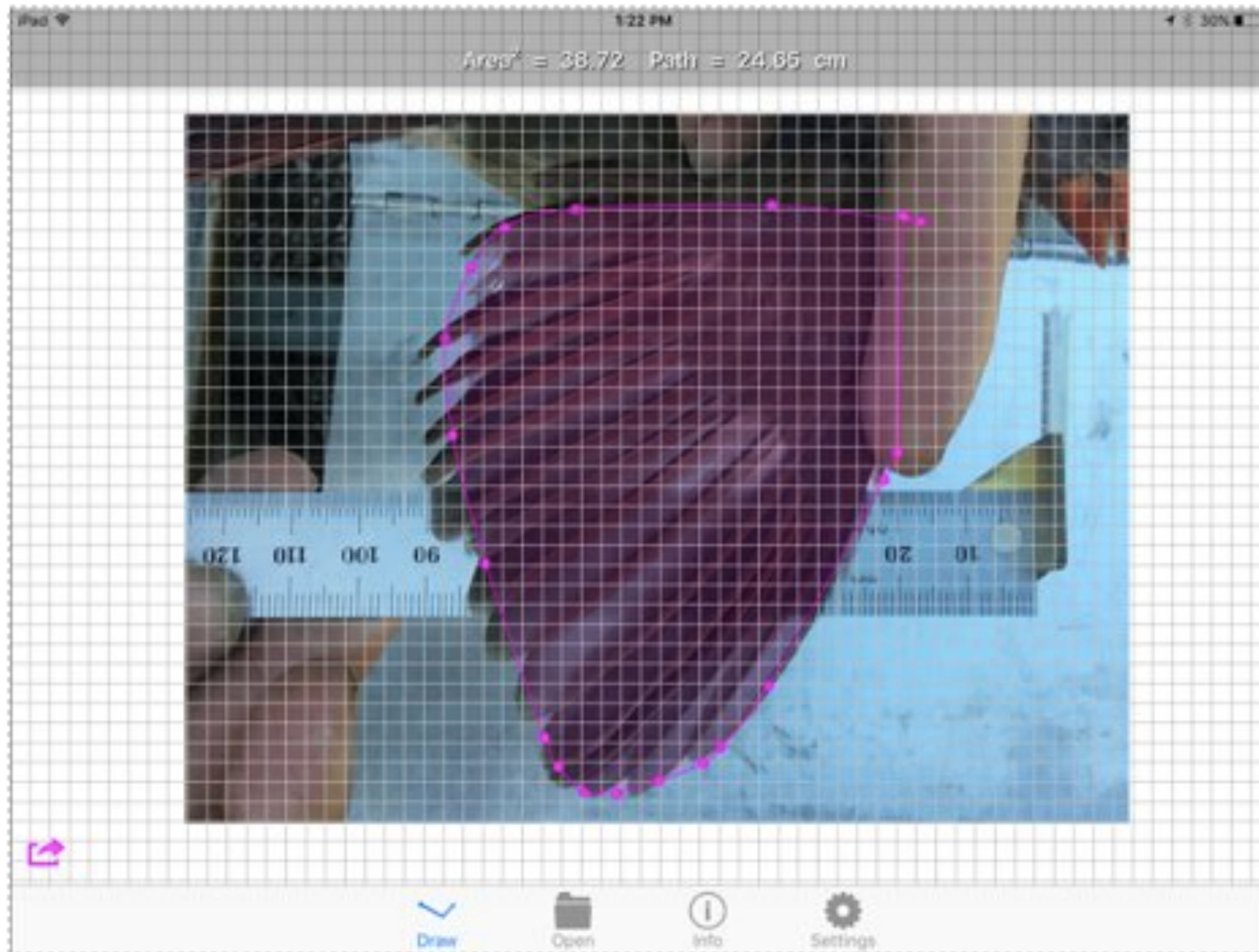


## Discipline Specific Apps



Students use their Apple Pencil and Art Studio Pro to complete perspective drawings of the natural world.

## Discipline Specific Apps



Students use the Sketchand Calc Area Calculator to research migratory bird patterns in real time.



# Teaching

# TEACHING

To support faculty in the shift toward active learning, Maryville University has invested heavily in professional development opportunities. In 2015, Maryville University extended faculty contracts by two weeks, at a cost of \$400,000 annually, to provide time for professional learning. Organized by the Finch Center for Teaching and Learning (CTL), this professional development period allows faculty to spend dedicated time presenting and attending cross-disciplinary workshops focused on pedagogy, technology and diversity and inclusion.



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## Faculty Professional Development



**REAL Week (Every August)** Our fall professional development week is an internal teaching and learning convention. Since 2015, faculty members have presented 130+ sessions to their colleagues. Sessions during REAL week include a wide range of topics, such as “Teaching Diversity,” “Engaging Students” and “Apps, Apps, Apps: Using the iPad in Class.” While each year is a bit different, this past fall (2017) focused on four strands: Delivery, Inspiration, Design and Unity.





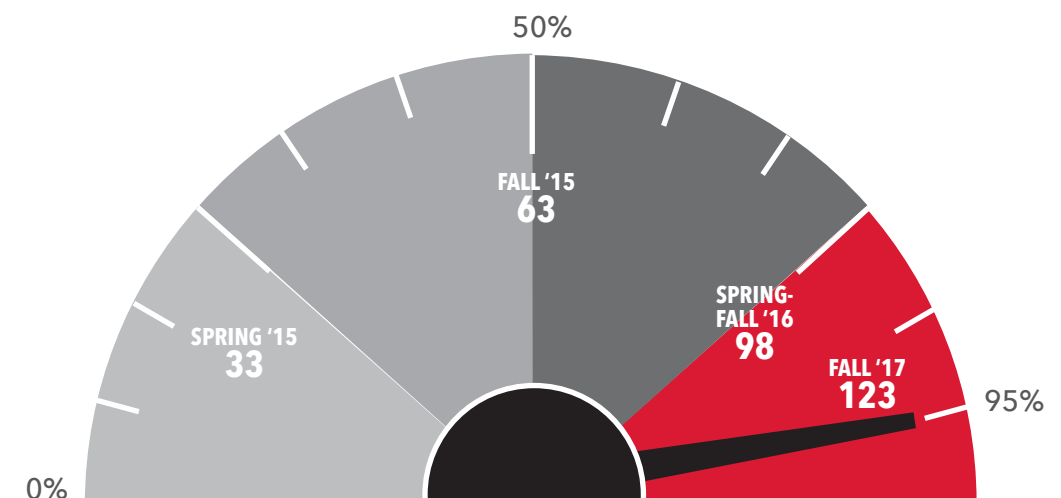
**Perspectives Week (Every May)** Our spring professional development week, *Perspectives*, is a collaborative, cross-disciplinary workshop model in which faculty reflect, share and complete a pre-determined project. Before the week begins, faculty members set and accomplish goals on a shared document and then keep track of daily goals and final accomplishments. The most recent Perspectives Week (May 2018) focused on these five themes: Generating Change, Technology, Race, Active Learning Ecosystem and Reflection.

Throughout the week, faculty members inspire each other and become inspired by working across disciplines, using technology to develop qualities of the Active Learning Ecosystem and embracing cultural awareness as a foundation for interacting with students.

## iPad On-boarding Professional Development

In addition to these two professional development weeks each year, 95% of faculty have voluntarily attended semester-long professional learning (7.5 hours of training) focused on best practices for using the iPad in the classroom. Conducted every semester over the past four years, this professional learning opportunity consists of five, 90-minute workshops. All new faculty attend this during their first semester of teaching at Maryville University.

In this program, faculty are trained on a collection of specific iPad applications, including iMovie, GarageBand, Photos, Apple Classroom, Keynote, Explain Everything and Socrative.



### PROFICIENCY IN USE OF APPLE APPS

Full-Time faculty (in scope) who have completed semester-long iPad professional development.



## Apple Distinguished Educators



Maryville University has five ADEs! Maryville's ADE Class of 2017: Dustin York, EdD; Sam Harris; Candace Chambers, PhD; and Katherine Kline, PhD.

## Apple Teacher

Once a faculty member completes their iPad on-boarding (95% complete as of May 2018), they are encouraged to finish the Apple Teacher designation on their own time. To date, 105 faculty members at Maryville University have completed the Apple Teacher designation.



## APPLE TEACHER DESIGNATIONS

### Conclusion

The profound impact on culture and innovation in pedagogy that occurs when an institution expects engagement, pays salaries and allocates resources so faculty spend a minimum of 80 hours engaged in professional development each year cannot be overstated.

# Environment

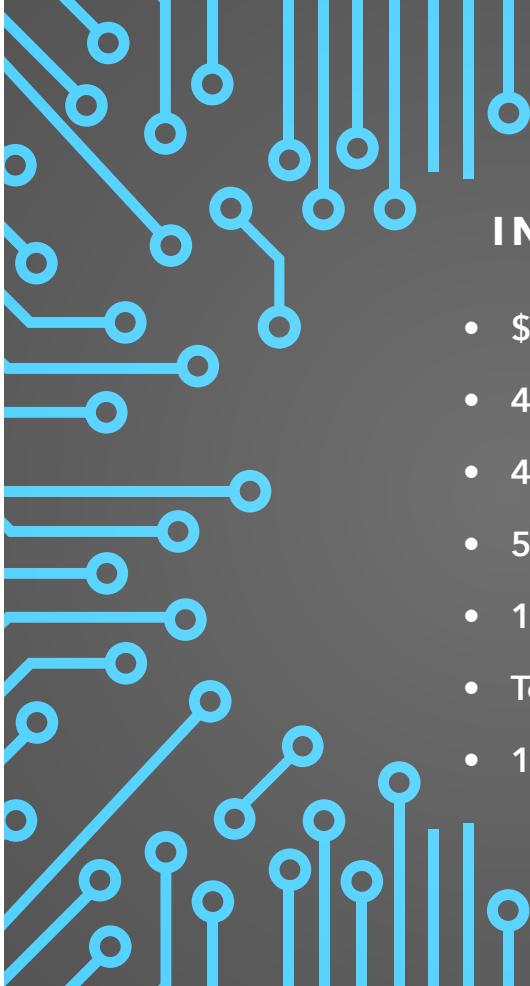


# ENVIRONMENT

*"If a 1:1 is going to be successful, the infrastructure has to be invisible."*

*– Sam Harris, Director of Learning  
Technology & Support,  
Apple Distinguished Educator*

One of the top priorities at Maryville University is to provide learning environment that reflects the principles of active learning. This commitment includes support for major infrastructure improvements, learning space renovation and investment in technologies, people and resources to support Digital World.



## INFRASTRUCTURE IMPROVEMENT

- \$3+ million in WiFi upgrades in 2014-2015
- 40GB Network Backbone
- 40GB Network Ring (Building to Building)
- 5GB Internet Connection
- 1,100 Aruba Access Points
- Top 10% for connected campus in the U.S.
- 116 Apple TVs (Every classroom and meeting space)



## Learning Space Renovation

In January 2018, Maryville completed construction on its new active learning space. The space was a collaboration between faculty and staff and designed with active learning principles in mind.

This upgrade has enabled our faculty to better utilize active learning principles, which includes the use of the iPad as the primary learning tool. Additional spaces are planned for late 2018, with major reconstruction projects in 2019 and 2020 that will effectively transition every classroom at Maryville University to an active learning space.



## Mobile Device Management

Maryville University uses Jamf to manage all macOS (300), tvOS (125) and iOS (3,500) devices. We've invested in Jamf training for our staff so we are better able to support Digital World. To date, we boast:

- 4 Casper Certified Technicians
- 1 Casper Certified Administrator

Additionally, we've migrated into Apple School Manager for managing our VPP and DEP accounts. Apple School Manager has been instrumental in our ability to be the first institution in the world to implement Apple Classroom enterprise wide. Every term, we automate the creation of Apple Classroom for every section of every course offered on campus.



2,000+ classes  
created annually

# Results



## RESULTS

Annually, Maryville University conducts a student satisfaction and faculty satisfaction survey to understand the lasting impact of Digital World. The positive results over the past four years truly highlight the impact Digital World has on student learning and faculty pedagogy.

### Student Results

- 97%** Satisfaction with Digital World initiative
- 81%** iPad contributes positively to learning experience
- 91%** iPad enables better connection with peers
- 94%** Technology is instrumental to success at Maryville
- 84%** Use iPad most often for academic work
- 17%** Digital World/iPad "was a major decision factor in my choice to attend Maryville."

### Faculty Results

- 98%** Use the iPad primarily for teaching, course prep and University-related work
- 90%** Moderately confident (or more) in their use of the iPad in the classroom
- 94%** Agree technology is instrumental to student success at Maryville



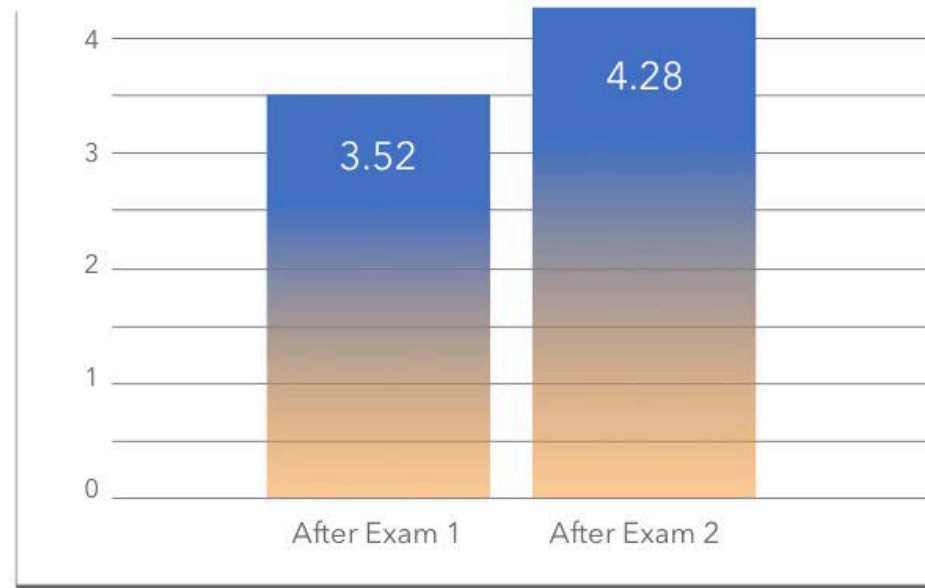
## Impact of iPad on Student Success

In addition to satisfaction surveys, which are used for decision-making related to the initiative, our faculty have studied the impact of the iPad on student success.

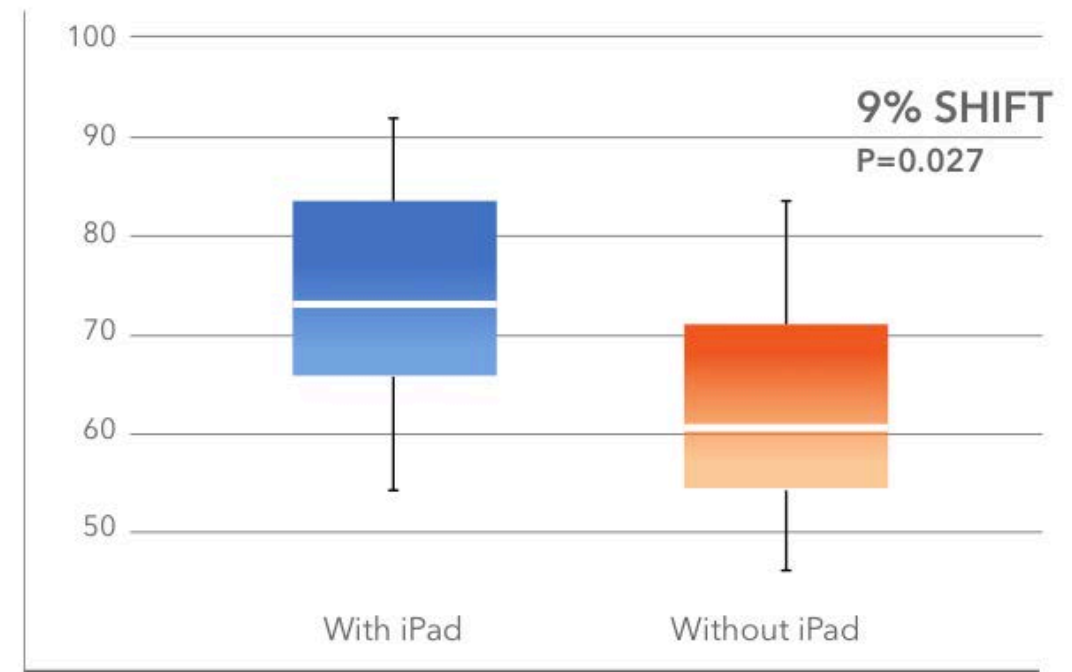
### The iPad and Retention of Information

**Study:** Two sections of *Introduction to Biology*. One section with traditional lecture and the other where the instructor used a variety of apps for in-class activities and an adaptive learning eBook for at-home reading. The students in the active learning iPad course identified a 9% increase in the retention of information between the fall and spring semesters. Additionally, these students demonstrated a significant boost in confidence as users of the iPad between the end of exam 1 and the end of exam 3.





## INCREASED CONFIDENCE USING THE iPad FOR CLASS



## ENHANCED RETENTION OF COURSE MATERIALS USING THE iPad

Students in iPad enabled sections had an adaptive learning eBook and used apps daily. Before taking the second course in the sequence, students took a pre-test, which comprised of 24 multiple choice application based questions. Students who had taken the iPad enabled section in the first course of the sequence demonstrated a 9% increase in the retention of course material.

## Impact of iPad on Campus Environment

While the focus of Digital World is on teaching and learning, the impact of such a far-reaching initiative has permeated all facets of the institution, from admissions to advancement. In the first and second years after launching Digital World, Maryville University realized an increase of **46%** and **12%** in the incoming freshman class enrollment, with **19%** of incoming students indicating that Digital World was a primary factor in their decision to matriculate. The strategy of sending push notifications to the iPad of each graduating senior about how to donate to the class gift resulted in a **106%** increase in the number of total donors.





# CONTRIBUTIONS AND CREDITS

## School Liaison

**Sam Harris**

Director  
Learning Technology & Support  
Apple Distinguished Educator  
[sharris@maryville.edu](mailto:sharris@maryville.edu)

The success of Digital World wouldn't be possible without the tremendous support of students, faculty and staff at Maryville University. The following faculty and staff made significant contributions in helping Maryville University tell our Digital World story.

## Vision

Mark Lombardi, PhD  
President  
[president@maryville.edu](mailto:president@maryville.edu)

Cherie Fister, MFA  
Vice President  
Academic Affairs  
[cfister@maryville.edu](mailto:cfister@maryville.edu)

## Learning/Results

Jennifer McCluskey, PhD  
Vice President  
Division of Student Success  
[jmccluskey@maryville.edu](mailto:jmccluskey@maryville.edu)

Sam Harris  
Director  
Learning Technology & Support  
Apple Distinguished Educator  
[sharris@maryville.edu](mailto:sharris@maryville.edu)

## Teaching

Jesse Kavadlo, PhD  
Professor, English  
Director, Center for Teaching & Learning  
[jkavadlo@maryville.edu](mailto:jkavadlo@maryville.edu)

Laura Ross  
Associate Director  
Center for Teaching & Learning  
[lross@maryville.edu](mailto:lross@maryville.edu)

## Environment

Douglas Glaze  
Chief Technology Officer  
IT Services  
[dglaze@maryville.edu](mailto:dglaze@maryville.edu)

## Integrated Marketing & Communications

Marcia Sullivan  
Vice President  
[marcia.sullivan@maryville.edu](mailto:marcia.sullivan@maryville.edu)