

Summary

Spring 2018 saw **10,311 students and faculty** use the Media Commons, Maker Commons, and Immersive Experiences Lab initiatives across the Commonwealth. Much of this use was focused in **260 classes** in nearly every discipline offered at Penn State. To facilitate these interactions outside of University Park, traveling consultants **visited campuses 60 times** to offer instruction and consultations.

One Button Studios at 17 campuses helped students and faculty create **12,831 academic videos**, comprising over **17 straight days of video**. Students across the Commonwealth also created **3,971 3D prints** in pursuit of their own curiosity and course work.

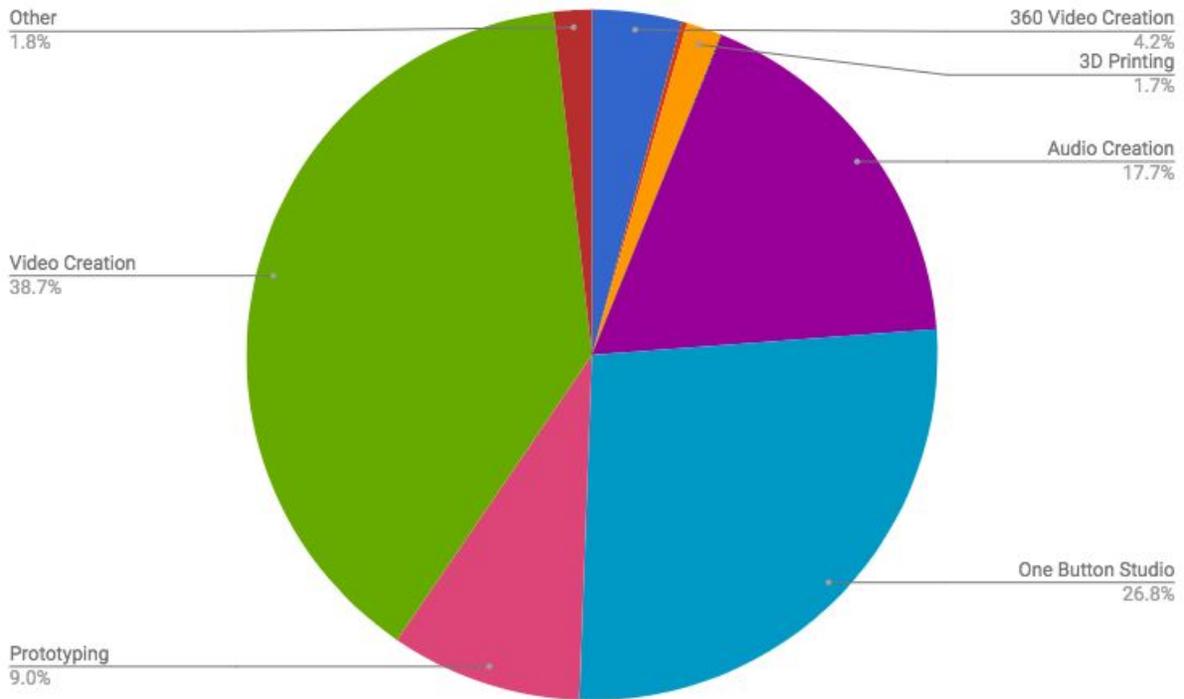
The report that follows breaks down our interactions with students and faculty and examines engagement levels with services offered, locations, and by individual colleges. Throughout the report we'll draw attention to exciting assignments, surprising class partnerships, and interesting observations from the semester - stories that tell the ways in which Penn State faculty and students are pushing the boundaries of education into the future. We'll also point out usage and technology trends that draw from Media Commons' proven history in supporting multimedia and emerging technology as well as reflect on challenges and opportunities in the coming semesters.

People Helped

Faculty and students used Media Commons and Maker Commons services in a variety of ways in all of our locations over the course of the semester. These charts count how many people were aided by our consultants in either 1-on-1 consultations or in-class workshops.

Media Commons @ University Park	# of People Helped
Pattee Library Knowledge Commons	3,178
Pollock Building Computer Lab	378
PAMS Library, Davey Lab	206
Immersive Experiences Lab, Agricultural Sciences & Industries Building	137
Media Commons Workshops	3,083
Maker Commons Workshops	732
Immersive Experiences (IMEX) Workshops	156
University Park Total	7,870

Technology Breakdown:



360 Video Creation	3D Modeling	3D Printing	3D Scanning	Audio Creation	One Button Studio	Prototyping	Video Creation	Other
330	19	131	2	1,392	2,107	705	3,044	140

Featured Stories:

- **HIST 197 at University Park** focused their semester on the year 1968. The students were tasked with scheduling and recording an oral history using the Media Commons podcasting resources. Students recorded an interview they conducted with a Penn State alumni that attended school in 1968 and then added their interview to an online collection of 1968 stories at <http://1968.psu.edu/>
- This was the first semester that the Immersive Experiences Lab was fully operational and overall we had a very successful launch of the service. We worked with 7 different classes across 6 different disciplines, teaching a total of 13 workshops and helping 330 people with different aspects of either creating or viewing immersive experiences. The types of projects ranged from simply assigning a viewing experience, as **RPTM 300 at University Park** did in order to assess how the technology might be used in the tourism

industry, to producing a full 360° video experience. This semester, we had 4 classes produce video content. **AA 297 (UP)** explored how 360 technology might be used in music education, while **AA 106 (UP)** used 360° footage to experiment with different ways to lay graphics on top of the videos using Adobe After Effects. **AEE 349 (UP)** created agriculture training videos while **GEOG 497 (UP)** worked with footage to incorporate it into VR settings.

Media Commons @ Western Campuses	# of People Helped
Altoona	170
Beaver	493
Behrend	53
DuBois	-
Fayette	-
Greater Allegheny	-
Harrisburg	317
Mont Alto	51
New Kensington	258
Pittsburgh Center	-
Shenango	22
Western Campuses Total	1,364

Featured Story:

- An increase in **New Kensington** activity previews what is expected to be even more interaction in the Fall 2018 semester as initial exploration of 360° video and Spark takes more formal form with in-class assignments in **SPAN** and **ENGL**, respectively as well as new initiatives in **Continuing Ed**.

Media Commons @ Eastern Campuses	# of People Helped
Abington	36
Berks	593
Brandywine	278
Great Valley	-
Hazleton	9
Lehigh Valley	-
Schuylkill	69
Scranton	45
Wilkes-Barre	46
York	1
Eastern Campuses Total	1,077

Featured Story:

- A podcasting assignment created by Julie Gallagher for **HIST 021 at Brandywine** will now become a permanent project for History classes for semesters to come. The assignment is based on the “Presidential” podcast by the Washington Post. Students pick a historic figure and create a biographical telling of the figure’s life, complete with sound effects and music. Students either work independently or in pairs, and use GarageBand to edit their podcast assignments together.

Class Partnerships Across Colleges

Media Commons consultants partner with faculty from every college at Penn State to help design multimedia and making assignments, provide workshops for students, and 1-on-1 consultations as the students complete their work. This table represents how many classes were worked with in which colleges during the semester.

Partnered Service Key: Media Commons = MeC, Maker Commons = MaC, Immersive Experiences Lab = IMEX

Colleges	University Park				Western Campuses				Eastern Campuses				Grand Totals
	MeC	MaC	IMEX	Total	MeC	MaC	IMEX	Total	MeC	MaC	IMEX	Total	
Agricultural Sciences	7	1	4	12	-	-	-	-	-	-	-	-	12
Arts & Architecture	3	1	4	8	-	-	-	-	-	1	-	1	9
Business	4	-	-	4	1	-	-	1	5	-	-	5	10
Communications	3	-	1	4	1	-	-	1	4	-	-	4	8
Earth & Mineral Sciences	8	-	2	10	-	-	-	-	2	-	-	2	12
Education	-	1	-	1	-	-	-	-	2	-	-	2	3
Engineering	-	30	-	30	-	-	1	1	1	2	-	3	34
Graduate School	1	-	-	1	-	-	-	-	-	-	-	-	1
Health & Human Development	8	-	-	8	2	-	-	2	2	-	-	2	12
Information Sciences & Technology	-	1	-	1	2	-	-	2	1	-	-	1	4
Liberal Arts	99	26	2	127	9	-	1	10	8	-	-	8	145
Medicine	-	1	-	1	-	-	-	-	-	-	-	-	1
Nursing	-	-	-	-	3	-	-	3	-	-	-	-	3
Sciences	1	1	-	2	3	-	-	3	1	-	-	1	6
Totals	134	62	13	209	20	0	2	22	26	3	0	29	260

Featured Stories:

- Dr. Cassandra Butterworth at **Beaver** has continued refining her **BIOL 220W** course assignment, leveraging iterative improvement based on MC and Library suggestion as well as direct student feedback.
- At **New Kensington**, Melba Amador will be taking a 360° camera with her as she spends 30 days walking the Camino de Santiago between France and Spain and a month in Costa Rica visiting family. All recordings aim to capture immersive, real world experiences in Spanish to be used in her **SPAN** courses and OER texts.

Campus Engagement

Campuses often don't have their own local Media Commons support and so rely on our consultants to visit campus to work with faculty and provide workshops for students. We host several tailored faculty events each semester to discuss opportunities and visit campuses as often as possible to support class partnerships.

Western Campuses	# of Classes	Events	In-Person Visits*	Remote Sessions†
Altoona	2	-	2	2
Beaver	9	1	14	3
Behrend	2	-	2	2
DuBois	-	-	-	-
Fayette	-	-	-	-
Greater Allegheny	-	-	1	-
Harrisburg	1	-	-	2
Mont Alto	3	-	2	-
New Kensington	4	-	6	1
Shenango	1	-	1	-
Center in Pittsburgh	-	1	1	-
Totals	22	2	29	10

* In-Person Visits include travel to campus for teaching workshops, faculty consultations, meeting with students, hosting events, equipment and computer service, and/or One Button Studio tune-ups.

† Remote Sessions denote online trainings via Zoom, critiques of project materials uploaded to Canvas, Box, etc and individual meetings with students via videoconferencing.

Featured Story:

- Training and support for a **PSYCH 100 course at Harrisburg** that was added to Dr Martha Strickland's roster at the last minute was easily applied owing to a long term relationship that has evolved over time with her. Without travel to the campus, research papers were converted to short, informational videos to be shared with incoming

freshmen about the psychology of stress and effects of sleep, diet, exercise, social support and more on maintaining health when starting school.

Remote overview, storyboard review sessions provided. (Examples [1](#), [2](#))

Eastern Campuses	# of Classes	Events	In-Person Visits*	Remote Sessions†
Abington	1	-	2	-
Berks	13	-	9	1
Brandywine	11	-	10	3
Great Valley	-	-	6	-
Hazleton	-	1	1	-
Lehigh Valley	1	-	-	-
Schuylkill	1	-	2	1
Wilkes-Barre	1	-	1	1
Worthington Scranton	1	-	-	2
York	-	-	-	-
Totals	29	1	31	8

* In-Person Visits include travel to campus for teaching workshops, faculty consultations, meeting with students, hosting events, equipment and computer service, and/or One Button Studio tune-ups.

† Remote Sessions denote online trainings via Zoom, critiques of project materials uploaded to Canvas, Box, etc and individual meetings with students via videoconferencing.

Featured Story:

- In **CAS 398 at Berks**, professor Kesha Morant-Williams challenged her students to make public service announcements/commercials for Penn State St. Joseph Medical Center. The students were required to create videos using iMovie and to coordinate with different members of the hospital administration. At the end of the semester the students presented their final products to the hospital administration in hopes that the videos would be used by them in the future. This assignment gave the students a real life client to work with and the opportunity to create marketing materials for that client. *One In-Class Training Session, Use of iMovie Modules, and Remote Critique Session. (Examples: [1](#))*

One Button Studio

Media Commons supports the One Button Studio project across many campuses. The One Button Studio allows students and faculty to simply create good quality academic videos, often for recording presentations, lectures, and demonstrations, or completing class assignments.

Location	# of Videos Created	Total Duration of Videos H:M:S
Pattee Library Knowledge Commons (2 studios)	6,744	223:48:25
Pollock Building Computer Lab (2 studios)	1,232	43:17:24
PAMS Library, Davey Lab	721	32:38:17
University Park Total	8,697	299:44:06
Abington	512	22:59:48
Altoona	308	9:44:37
Beaver	590	7:04:44
Behrend	392	7:45:06
Berks	755	13:33:56
Brandywine	238	5:39:42
Great Valley	Temporarily Dismantled	For Renovations
Harrisburg	160	4:03:34
Hazleton	77	3:41:12
Lehigh Valley	175	4:30:10
Mont Alto	105	3:29:51
New Kensington	404	16:04:10
Schuylkill	96	1:11:21
Scranton	204	7:34:21
Shenango	35	2:16:11

York	83	4:28:21
Total One Button Studio Use	12,831	413:51:10

Featured Story:

- At **Mont Alto**, Anthony Betonte's new **SPAN 197** course offers students a chance to practice their medical terminology in realistic skits of their own creation. The One Button Studio allows easy recordings so that they can focus on honing their Spanish language skills.

3D Printing

The Maker Commons offers students at University Park, the Commonwealth Campuses, and World Campus access to 34 3D printers through an online submission process. The printers are located at University Park but, through a partnership with University Libraries, are able to ship prints to any student for easy pick-up.

Unique PSU Users	967
Hours of Print Time	14,127
Successful Prints	3,971
New Print Requests	2,702
Filament Used	152,793 grams (~337 lbs)

Featured Story:

- **AERSP 470 at University Park**, an Advanced AeroSpace Structures class, was given the task of designing and building a robust moon habitat on a vacant 10m x 10m lot using additive manufacturing. To simulate this the students 3d printed a prototype habitat on a 1:100 scale and conducted a structural analysis on the printed object. The structure needed to withstand certain loads and pressures while maximizing the living area and also minimizing the habitat weight/volume to save the precious resources.

First Semester for New MC Website

Rounding out its first full year in operation after a Spring 2017 semester redesign and relaunch, the Media Commons website performed exceptionally well.

- The number of unique visitors reached **70,267**, an **increase of 32%** from the Fall 2017 semester.
- Another **modest increase of 11%** was to be found in pageviews, **growing to 133,052** from the previous term.
- Pages per session continues to fall, **dropping 15%** from Fall 2017 to **just 1.59**. Again, this points to greater ease of finding information by nav and search.
- The **Free Media Library** remains a popular teaching and learning resource (11,728 visits) followed very closely by the University Park appointment request form (6,044) and Students page (2,613) and the Using Your One Button Studio page (2,422).
- Continuing a trend from Fall, many of the specific sub-topic tutorials are now ranking as **top 10 content**: Exporting an MP3 and Fades/Volume Adjustment in GarageBand with 20,283 and 5,368 visits respectively as well as Adding Sound Effects in iMovie with 8,402.
 - Taken together, these tutorials alone saw a **51% increase in traffic**, further strengthening the supposition that organic search is a growing driver of traffic to the site.
 - Additionally, just three tutorials now **represent 25% of all pageviews**.
- Bolstering the supposition that a global audience now uses search to find Media Commons tutorials as a learning resource, **32% of all site visits** originated outside of the US.

Challenges & Opportunities

- Lauren Rodgers re-joined the group in January 2018 as a consultant in the Pattee Library Media Commons & Maker Commons. Lauren was previously a part-time consultant with Media Commons a few years ago and brings with her a graphic design skill set and advanced knowledge of several Adobe products.
- As part of a professional development opportunity, IMEX consultant Dan Getz completed the FAA Part 107 exam in order to become a Certified Remote Pilot. Now that Dan is legally able to fly drones, Media Commons is exploring a number of potential uses that align with immersive and media technologies.
- After over a year of planning, the Immersive Experiences Lab officially opened with the start of the Spring 2018 semester in room 109 of the Agriculture Sciences and Industries building. Interest in the physical space and the affordances of immersive technologies continues to grow among faculty and students. We are continuing to monitor the immersive reality landscape and are actively investigating new technologies as they are released, while also evaluating their scale potential and providing the Commonwealth campuses with opportunities to participate as well.