

RUTGERS

THE STATE UNIVERSITY
OF NEW JERSEY

Committee on the Near- and Long-Term Impact of Instructional Technology

INTERIM REPORT

April 2015



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EXECUTIVE SUMMARY

The purpose of this interim report is to provide an update on the strategic planning activities of the Committee on the Near- and Long-Term Impact of Instructional Technology (henceforth referred to simply as the ITC).

The ITC is charged with assessing Rutgers' current educational technology infrastructure, comparing it to that of our peer and aspirational peer universities, and developing an institutional plan for the design, implementation, deployment, and assessment of innovative teaching technology. This charge is being executed in two phases. Phase I involves data collection, analysis and assessment that will be used to identify strategic goals and inform the strategic planning effort in Phase II. The Phase I endpoint is marked by this ITC Interim Report. Phase II involves the development and planning of specific initiatives that will advance us toward the achievement of our strategic goals and facilitate the tactical deployment of instructional technology in order to ensure that the University will continue to fulfill its mission in the 21st century. The Phase II endpoint will be marked by the submission of the ITC Final Report that describes these initiatives.

To achieve the Phase I objectives, the ITC was subdivided into four subcommittee working groups:

CLIMATE: this subcommittee was charged with collecting student and faculty data on current use of instructional technology at Rutgers, and how the technology is perceived.

ORGANIZATION/RESOURCES: this subcommittee was charged with preparing a university-wide inventory of existing organizations and resources at Rutgers that are associated with instructional technology.

PEDAGOGY: this subcommittee was charged with identifying pedagogical practices/strategies that best promote student learning, understanding how technologies can support and enhance these practices, and examining the current use of these practices by Rutgers University faculty and instructors.

PEERS & ASPIRANTS: this subcommittee was charged with providing insights about instructional technology and its management at peer and aspirational peer institutions.

Detailed reports from each of the subcommittees are provided in the interim report. Analysis of the data across all of the subcommittees revealed the following overarching themes:

1. Students and faculty generally prefer individual, face-to-face interactions, when such interactions are possible. Instructional technology is NOT about moving to totally online courses. It is about using technology to enhance instruction inside and outside the classroom. It is about learning.
2. Rutgers faculty and students are waiting for leadership. Most students like having technology integrated into their classes. Most faculty are open-minded about instructional technology use. Nonetheless, leadership to drive effective instructional technology initiatives will not come from either of these groups.
3. Other universities in the CIC are moving toward institutionalization of instructional technology, but at a slow pace, and with no clear front-runners. *Rutgers has the opportunity to emerge as a leader in instructional technology innovations.*

If Rutgers seizes this opportunity, it will enhance our reputation and make us more competitive in attracting and retaining outstanding students and faculty.

4. The broad use of instructional technology in higher education nationwide is inevitable in the coming decades. *The goal is to bring instructional technology facilities to Rutgers in a coordinated, sustainable, and forward-thinking way.*
5. Significant efforts and resources at Rutgers today are aimed toward helping students and faculty use instructional technology. However, *strong coordination in making instructional technology part of the university conversation is needed to make the whole greater than the sum of its parts.*

The data from the subcommittees was used to guide discussions at a strategic ITC workshop in February 2015 with the aim to identify three strategic planning goals moving forward into Phase II: 1) advance the development and application of effective teaching methods and practices through the use of innovative instructional technology, 2) standardize and enhance traditional classroom spaces, develop technology-enabled alternative learning spaces, and build an infrastructure that virtually connects classrooms, students, and instructors, and 3) encourage and enable coordination, access, and effective exchange of information, content, and capability for and throughout the university community.

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CLIMATE SUBCOMMITTEE

OVERVIEW

The goal of the Climate Subcommittee was to identify the culture of instructional technology use at Rutgers University. The subcommittee developed and deployed in November of 2014 two anonymous surveys--one directed to faculty and another to students. Participants were asked to report on their experience with instructional technology during the 2013-2014 academic year. Questions targeted how faculty and students currently use technology both academically and personally. Other questions were designed to gauge their perceptions of the use and effectiveness of the technology. Additionally, data were collected about faculty professional development, support, and preferences.

SURVEY DEVELOPMENT AND PRE-TESTING

Work began on survey development in July 2014. Previous surveys from Rutgers and other institutions were acquired and analyzed. Pre-

SEE MORE IN THE APPENDIX

- Descriptive statistics of all faculty survey responses
- Descriptive statistics of all student survey responses

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liminary surveys were developed in Qualtrics and reviewed by the committee. The modified surveys were then pre-tested by faculty, staff, and students and edited as needed.

RESULTS

Faculty

The survey was completed by 666 faculty members with 75% self-identifying as full-time faculty. Qualitative data were drawn from the 200-300 respondents to open-ended questions. Almost all faculty (96%) reported that they had access to a laptop and 82% had a smartphone. The majority of faculty (93%) reported that they taught face-to-face in the 2013-2014 academic year while only 14% indicated they had taught a course completely online. For faculty who indicated a preference, 62% identified face-to-face instruction as their most preferred modality for teaching. Instructional technology use was wide-

spread among the faculty, with almost 90% reporting they had created presentations and over half collaborated on shared documents, attended virtual sessions (e.g., Skype, Google Hangouts, Collaborate, Connect, GoToMeeting), and analyzed data with spreadsheets. In open-response questions, faculty cited an array of “innovative” uses of technology (e.g., gaming, visualization techniques, online/hybrid courses, social media, classroom response systems, faculty/student generated websites). Additionally, faculty were consumers of technology with the majority (80%) reporting that they watched videos and used electronic library resources. It is noteworthy that almost one-third of surveyed faculty indicated they had created and uploaded videos for academic reasons.

Faculty reported that they learned about instructional technology most often through online instructions followed by face-to-face training, one-on-one sessions, and collaborative efforts with colleagues. Additionally, faculty indicated that they preferred to learn about instructional technology via one-on-one sessions, online instructions/videos, collaborative efforts with colleagues, and face-to-face workshops. In the open-response questions, faculty also requested self-paced online training, customized trainings (e.g., to department/discipline, individual needs, and/or experience level), and frequent/flexible scheduling of trainings. About one-third of the faculty reported using University staff for technology support at least once a semester and reported that support to be effective. In the open ended questions, faculty requested additional and better-informed support staff, improved availability/immediacy of response, and greater clarity in whom to contact for support needs.

When asked to identify the challenges that limited their use of instructional technology, the majority of faculty agreed that the barriers were: students’ use of technology for non-class purposes during class, the need for additional or better professional development, and the amount of time and effort required to implement. In response to open-ended questions, faculty included the need for consistent and reliable infrastructure (e.g., availability of functioning internet, computers/projectors in each classroom, computer/tablet for each student) and incentives for instructional technology use. Faculty also indicated that they would be interested in learning more about

a number of technologies. The in-class technology that faculty indicated they were most interested in learning about was smartboards followed by clickers, annotation software, lecture capture, and web conferencing.

Most faculty agreed or strongly agreed that instructional technology can improve student learning.

Students

Of the 1,483 students who completed the survey, 70% reported they were undergraduates in the 2013-2014 academic year. The majority of students reported they had taken a face-to-face course and that format was ranked as the most preferred format for taking courses. Students reported almost universal access (98%) to a computer. Over 80% of the students indicated they brought a smartphone to every class. About 70% indicated that they had access to a laptop to take to class, but less than 30% reported bringing a laptop to every class. Almost three-quarters of the students reported that they used their computers once a week or more to complete class assignments, access course content, use a learning management system, conduct research, check their grades, and communicate with other students. The majority of students reported using technology for their courses to watch online videos, create presentations, utilize electronic library resources, and collaborate on shared documents. A higher percentage of students than faculty reported using the social media tools of Facebook and Twitter for personal use.

While the majority of students (70%) indicated that they agreed with the statement that their instructors used technology effectively, an almost equal percentage (71%) also agreed with the statement that their learning would be improved if their instructors used technology more effectively. Over 90% of the students agreed that it was useful to have their assignment grades posted online throughout the semester, and a quarter of the students reported that their instructors used technology too little to record grades online. Over three quarters of students agreed that a learning management system (e.g., Blackboard, Sakai, eCollege) enhances their learning and helps keep them organized. A little over one half of students agreed that they find the use of mobile devices distracting in class.

ORGANIZATION SUBCOMMITTEE

OVERVIEW

The goal of the Organization/Resources Subcommittee's work was to learn about the various units engaged in instructional technology at Rutgers and the services they provide. To reach this goal, an online survey was sent to over two hundred staff members affiliated with instructional technology at Rutgers. Recipients were asked to help gather information on every area that engages in some level of instructional technology by completing one form per unit and sharing it with their colleagues. For the purposes of the survey, a "unit" could be a department, office, group, or individual. Units included in the results support a minimum of at least one entire academic school or administrative unit. Units may engage in activities not related to instructional technology, as long as they provide some service related to instructional technology. Our goal was to identify how and where end users take advantage of instructional technology at Rutgers.

INSTRUCTIONAL TECHNOLOGY UNITS AT RUTGERS

The survey revealed forty-five units engaged in providing instructional technology support to faculty, staff, or students on the Camden, Bio-medical and Health Sciences, New Brunswick, and Newark campuses. The results reveal a broad range in the scope and size of units, from large offices providing services across the Rutgers system to individuals supporting the faculty of one department. Six units serve all four

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Rutgers campuses: the Center for Online & Hybrid Learning and Instructional Technology, the Center for Teaching Advancement and Assessment Research, the Office of Disability Services, the Office of Information Technology, the Office of Instructional and Research Technology, and the Rutgers University Libraries. At the other end of the spectrum, twenty-seven units operate at the school or department level. However, this localization of services is not universal. While New Brunswick has sixteen units that operate at the department or school level, Camden has none. Instead, its five units providing instructional technology services operate across all of Rutgers-Camden.

HOW THE UNITS WORK TOGETHER

The survey revealed some formal organizational connections between the units. Twelve re-

porting units operate under the oversight of one of four larger units: the Division of Continuing Studies (which oversees the Center for Online & Hybrid Learning and Instructional Technology and the Center for Teaching Advancement and Assessment Research), School of Arts and Science Information Technology Office (which oversees instructional technology work performed in the Division of Life Sciences, the Laboratory for Computer Science, Mathematics, and Physics & Astronomy), the Office of Information Technology (which oversees OIT-Camden Computing Services, the Office of Instructional and Research Technology, and Newark Computing Services), and RU Libraries (which oversees the John Cotton Dana Library and the Paul Robeson Library).

Units did report several methods of working with their peers, from informal collaborations formed around various projects to regular meetings with their colleagues. Thirty-eight units reported participation in some Rutgers or inter-collegiate collaborative group. The most commonly listed formal collaborations are the Instructional Technology Specialists Group – cited by ten units – and the Committee on Institutional Cooperation, cited by five units. The Instructional Technology Specialists Group (ITS) is an organization of staff located across the Rutgers system who communicate through periodic meetings, Sakai, and an email list serve to share best practices or information and pool resources and knowledge for shared projects. Aside from ITS communications, the survey results do not point to a formal shared means for units to learn about the work of other units and publicize the availability of services to the Rutgers community.

INSTRUCTIONAL TECHNOLOGY SERVICES

Rutgers units provide more than twenty-nine different instructional technology services. Seventeen of these units provide some level of pedagogic training. The most commonly provided service is computer hardware/software pur-

chasing or advising, provided by all but eight units. The least commonly supported services – when counted separately – are some level of assistance for individual learning management systems (LMSs): Blackboard (supported by 10 units), ePearson (9), and Moodle (9). Sakai is supported by eighteen different units. While oversight of general use classrooms is conducted primarily by one department at Camden, New Brunswick, and Newark, various units support department-controlled and alternative classroom spaces. Overall, the smaller units tend to be generalists, offering a large number of different instructional technology services to a smaller constituency.

INNOVATION

Twenty-five units engage or have engaged in developing new instructional technologies, including the creation of adaptive eLearning systems, virtual classroom environments, a video wall, tools for data analysis, learning management system modules, and classroom audio/visual solutions.

Overall, these innovations have generally been developed internally by individual units, with no formal mechanism to collectively leverage the technologies or facilitate their broad deployment to other Rutgers units.



SEE MORE IN THE APPENDIX

- Instructional Technology Units at Rutgers
- Instructional Technology Units Level of Coverage (Campus and Rutgers-wide)
- Instructional Technology Units Level of Coverage (School/Department Specific)
- Services Provided

PEDAGOGY SUBCOMMITTEE

OVERVIEW

The primary role of instructional technology is to serve evidence-based pedagogy. Consequently, a strategic plan to institutionalize instructional technology must consider first pedagogy that best promotes student learning. Toward that end, the pedagogy subcommittee was formed to explore these issues and their relationship to instructional technology. The overall goals for the pedagogical group were to 1) broadly identify pedagogical practices/strategies that best promote student learning; 2) identify how technologies can support and enhance these pedagogical practices; 3) examine the current use of these practices by Rutgers University faculty and instructors. This report provides an overview of the subcommittee's activities and the initial analysis of the survey data.

BACKGROUND

The literature review found that research broadly supports the effectiveness of a variety of teaching methods (e.g., lectures, small work groups, science labs, discussions, question and answer, capstone projects) and provides empirical evidence to support the learning theories which inform these methods (e.g. Behaviorism, Cognitivism, Social Constructivism) (National Research Council, 2000). Research also suggests that instructional technology is most successful

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when it is in line with the instructor's larger theoretical approach to learning. In other words, technology-based tools can enhance student performance when integrated into the curriculum and used in accordance with knowledge about learning. Technology-based tools have to be part of a coherent education approach (Benson & Ward, 2013; Schmidt et al., 2009; Zhao, Pugh, Sheldon, & Byers, 2002). Yet little is known about the efficacy of specific instructional technologies. Thus, the subcommittee was most interested in how instructional technology is being employed to support faculty members' pedagogical approaches and resources faculty may need to better integrate instructional technologies into the pedagogical strategies.

Research also addresses the significance of instructor attitudes and beliefs in the adoption of instructional technology (e.g., McGrail, 2002). For instance, faculty member perceptions of the usefulness of technology were found to be a barrier to adoption (Buchanan, Sainter, & Saunders, 2013). In contrast, when organizational culture and infrastructure are perceived to support, value and reward pedagogy that integrates instructional technology, faculty may be more likely to use instructional technologies (Berryhill & Durrington, 2009; Zhao et al., 2002).

SURVEY DEVELOPMENT

The Pedagogy Subcommittee's survey to Rutgers University faculty examined several domains. First, the survey sought to identify the faculty member's pedagogical approach: *Transmissive* characterized by a stream of information broadcast to learners; *Dialogic* characterized by a discourse between participants; and/or *Collaborative/active* characterized by project and inquiry based active students (Bower, Hedberg, & Kuswara, 2010). Survey items further examined how faculty use instructional technology to support these larger pedagogical approaches (to engage in knowledge transmission, collaborative projects, etc). Survey items were adapted from extant assessment instruments concerning pedagogical approaches (Chan & Elliot, 2004) and the intersections of technological and pedagogical practices (Benson & Ward, 2013; Schmidt et al., 2009). The survey also queried faculty on their attitudes towards the educational and pedagogical value of instructional technology, as well as perceived and desired rewards and supports. Items in this domain are adopted from extant survey research (Johnsrud & Harada, 2005).

INITIAL FINDINGS

The survey was sent to faculty at Rutgers University from all four campuses. Six hundred and sixty-nine faculty responded. While the data is still undergoing analysis, initial findings include the following:

Respondent Characteristics

Of those who responded, the majority were on the New Brunswick (51.57%) campus. Seventy-nine percent (79%) self identified as full-time faculty/administrators and 21% identified as part-time faculty or adjuncts. Respondents indicated teaching graduate students (74%); undergraduate students (72%) and non-matriculated students (20%). Disciplines taught included STEM (30%); Health professions (30%); Professional schools (23%); Social sciences (20%); and, Arts & humanities (19%).

Pedagogical Approaches

Initial findings suggest that Rutgers faculty employ an eclectic pedagogical approach, utilizing a variety of pedagogical strategies that can be categorized as both transmissive and collaborative/active. For instance, on a Likert scale of 1 to 5 with 1 indicating strongly disagree and 5 indicating strongly agree, the mean response to the statement "I see my role as a facilitator. I try to provide opportunities and resources for my students to discover or construct concepts for themselves" was 4.15, indicating strong adherence to an active/constructionist teaching philosophy. The mean response on the statement, "I see my role as a subject expert where students learn best when I teach through explanation, show students how to do the work, and assign specific projects" was also 4.15, indicating a transmissive approach to teaching. Future analyses will examine these data more closely, to tease out possible relationships between pedagogical approaches and technology uses.

Instructional Technology Use

The majority (59%) of respondents reported using some form of instructional technology (e.g., classroom response systems, Wikis, threaded discussion, online assessments, synchronous web conferences, interactive games) in their courses.

Factors Relating to Instructional Technology Use

Respondents generally reported that they used instructional technology to improve pedagogy and enhance student learning. On a 1 to 5 Likert scale with 1 indicating strongly disagree and 5 indicating strongly agree the responses were as follows:

- “I utilize technology in my courses to better convey information and present material” Mean response = 4.3
- “I utilize technology in my courses to enhance student learning” Mean response = 4.38
- “I utilize technology in my courses to engage students” Mean response = 4.22

Departmental and administrative incentives appeared to play a smaller role in faculty adoption of instructional technology. On a 1 to 5 Likert scale with 1 indicating strongly disagree and 5 indicating strongly agree the responses were as follows:

- “I utilize technology because it improves my standing within my department.” Mean response = 2.43
- “I utilize technology in my courses because I am encouraged by administrators (deans, chairs, directors, etc) to do so.” Mean response = 2.57
- “I utilize technology in my courses because many of my colleagues do so.” Mean response = 2.58

SEE MORE IN THE APPENDIX

- Descriptive statistics of all faculty survey responses

Instructional Technology Training

Initial findings indicate that respondents’ use, knowledge of, and access to training and support for instructional technology may be limited. Twenty-three percent (23%) of respondents reported having ever sought assistance from an instructional designer to enhance classroom-based or online course design. On a 1 to 5 Likert scale with 1 indicating strongly disagree and 5 indicating strongly agree the responses were as follows:

- “I am aware of opportunities at Rutgers to receive training and in using technology to enhance instruction” Mean response = 3.27
- “I have had many opportunities to see how instructional technology is being used” Mean response = 2.76

The majority of respondents also indicated that they were moderately to extremely interested (81%) in “learning how technologies can be used to enhance student learning.”

INTERIM IMPLICATIONS

Initial findings and analyses of the pedagogy survey data suggest the following:

- Faculty currently use a variety of pedagogical strategies
- Faculty who employ instructional technologies largely do so to enhance student learning
- Faculty do not perceive instructional technology use to be incentivized by their departments or by the university administration
- Faculty use and knowledge of instructional technology training may be limited
- Faculty are interested in more training and professional development opportunities

Survey data will continue to be analyzed. Ongoing analyses will examine the relationship between pedagogical strategies, the use of and attitudes towards instructional technologies, as well as the survey’s qualitative responses.

PEERS & ASPIRANTS SUBCOMMITTEE

OVERVIEW

Planning for future instructional technology initiatives at Rutgers can be informed by those at our peer and aspirational peer research universities, particularly those underway at our fellow CIC (Committee for Institutional Cooperation) institutions. The Peers and Aspirants Subcommittee was formed to assess these advances, and it collected information through the following:

- Two surveys of CIC institutions (one of LMS usage, one of software categories conducted by the CIC affinity group)
- A lengthy survey of IT professionals representing CIC schools
- Interviews with key informants

Interviews with instructional technology leaders at other institutions suggest that important decisions must be made in the following areas.

INSTRUCTIONAL TECHNOLOGY INFRASTRUCTURE

Software

Current Learning Management Systems (LMS, e.g., Sakai, Blackboard) feature mature technologies, though none of these platforms clearly outshines the others. Institutional decisions

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concerning the adoption of a specific LMS are based on a number of factors (i.e., cost of the platform and maintenance and upgrade costs, feasibility of integration with legacy systems, flexibility and scalability). Rutgers currently supports a number of LMSs across the different schools, and any decisions about the full adoption of a singular LMS to complement instruction will need to consider these and other factors (the appendix includes an overview of the LMSs supported at our peer institutions). The most attractive LMSs distinguish themselves through their modularity—their ability to integrate well with other software packages, like video conferencing and lecture capture.

INSTRUCTIONAL TECHNOLOGY ORGANIZATION

Leadership & Organizational Structure

The structural relationship between more traditional information technology (IT) offices and instructional technology units vary across our peer and aspirational peer institutions, but there is a clear trend toward recognizing the distinction between the missions of each and delineating that distinction structurally. Institutions with clear visions for instructional technology and senior leaders empowered to organize resources to achieve these visions have had considerable success. Survey respondents have indicated that institutional commitment is most effective when complemented by extensive, ongoing collaboration with the faculty. The subcommittee was particularly impressed with the structure of two of our peers, Indiana University and University of Minnesota, who are particularly transparent and deliberative with their instructional technology initiatives. Indiana University also impressed with their commitment to ongoing research and assessment of their initiatives.

Faculty Support

Well-structured, intentional faculty support is critical to successful instructional technology integration. Faculty have ongoing demands on their time, and efforts to rethink course design and course delivery through technology require significant investments. Many institutions encourage faculty to integrate instructional technology through a variety of incentives, including release time for the development of new instructional technologies, merit raises, and consideration in the tenure and promotion processes. Most importantly, successful instructional technology integration is faculty-centric, meaning faculty see it as integral and additive to the learning process.

Many of our peer institutions have undertaken initiatives to introduce institutional analytics to assess measures like student learning outcomes and progress towards degree--initiatives that make use of data from both LMSs and student information systems. While there is tremendous excitement about analytics, this is still a burgeoning area, and Rutgers should continue to research the feasibility, reliability, and practicality of these student success analytics programs before making long-term enterprise investments.

Teaching & Learning Spaces

Rutgers' peers and aspirational peers continue to introduce new formal and informal learning spaces intended to infuse technology into every facet of instruction. Many of these classrooms and informal spaces are intended to allow medium-sized classes to divide into small groups of students working on technology-supported activities, and to share their work with the entire class. These projects are largely designed around the so-called "flipped classroom," where instruction that was traditionally reserved for lecture periods is being moved online and is intended to be completed before class meetings; the classroom periods are then used for "active learning" and problem-solving exercises. While these teaching and learning spaces are often expensive to build and instructors need extensive support to utilize them effectively, they offer the possibility of transforming the learning experience.

One of the notable trends in teaching and learning spaces involves projects and initiatives that blur the boundaries of traditional classroom walls. Bolstered by the power and ubiquity of connective and collaborative technology, our peers and aspirational peers are investing in learning commons, learning centers, and informal study spaces, which provide tremendous opportunities for flexible, asynchronous teaching and learning.

Innovation Centers

Peer institutions reported considerable success through the support of faculty and staff innovation initiatives, which are often accomplished by providing the technology support necessary to translate ideas into learning technologies or through the awarding of grants to allow for the development of promising ideas. These types of innovation initiatives, again, give primacy to the role of the faculty in determining the best use of technology to achieve educational objectives; instructional technologists operate as collaborative support for these initiatives.

Institutional Collaborations

Many of our peer and aspirational peer research universities have formed collaborations to advance instructional technology: Apereo (of which Rutgers is a member), EdX, and Unizen are three examples. Such collaborations allow for advantages through leveraging scale for initiatives like testing analytics systems, and public, rather than private, ownership of new technologies. Rutgers should explore institutionalizing productive collaborations to best employ instructional technology on a broader scale.

The CIC, which now includes Rutgers, holds regular meetings for instructional technology professionals. The CIC Learning Technology (CIC-LT) group—which is made up of learning technology staff from CIC institutions, most of

whom are directors or assistant/associate directors of their respective instructional technology units—meets in-person twice per year at one of the participating schools and two more times per year virtually. Rutgers representatives participated in the most recent meeting held at the University of Indiana, and they were impressed by the potential of this robust collaborative effort.

PEERS & ASPIRATIONAL PEERS

CIC INSTITUTIONS

Indiana University
Michigan State University
Northwestern University
Ohio State University
Pennsylvania State University
Purdue University
University of Chicago
University of Illinois
University of Iowa
University of Maryland
University of Michigan
University of Minnesota
University of Nebraska-Lincoln
University of Wisconsin-Madison

OTHER INSTITUTIONS

Colorado State University
George Mason University
Miami University-Ohio

SEE MORE IN THE APPENDIX

- CIC Course Sections Survey on LMS Usage
- CIC Instructional Technology Spreadsheet

CONCLUSION & NEXT STEPS

With this interim report, Phase I of the ITC strategic planning effort is complete. The information contained in this document has been used to identify the major strategic planning goals and, moving into Phase II, will guide the development of specific initiatives that will move Rutgers forward toward achieving these goals. Some of the overarching conclusions of this report are:

1. The broad integration of instructional technology into the learning cycle in higher education is a certainty, and yet, the mechanism to do this, and the technology itself, remains in its infancy. Taken together, these factors imply that there is tremendous opportunity for Rutgers to emerge as a leader in instructional technology innovations.
2. The development of infrastructure to enhance teaching and learning should include consideration of traditional and alternative classrooms and learning spaces, online eLearning tools, and software that allows students and instructors to more effectively interact.
3. The institutionalization of instructional technology at Rutgers needs a multi-

faceted effort that is highly coordinated and ties together efforts to build infrastructure and support new technology innovations that enhance teaching and learning on a large scale.

An outcome of the Phase I data collection and analysis was the identification of three overarching strategic goals that emerged from an ITC workshop in February 2015:

INNOVATION: Advance the development and application of effective teaching methods and practices through the use of innovative instructional technology

INFRASTRUCTURE: Standardize and enhance traditional classroom spaces, develop technology-enabled alternative learning spaces, and build an infrastructure that virtually connects classrooms, students, and instructors

COORDINATION: Encourage and enable coordination, access, and effective exchange of information, content, and capability for and throughout the university community

Phase II will focus on the design of specific initiatives that will move the University forward toward achieving these goals.

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APPENDICES

Climate Subcommittee

Appendix A: Faculty Survey Descriptive Statistics

Appendix B: Student Survey Descriptive Statistics

Organization/Resources Subcommittee

Appendix C: Instructional Technology Units at Rutgers

Appendix D: Instructional Technology Units Level of
Coverage (Campus and Rutgers-wide)

Appendix E: Instructional Technology Units Level of
Coverage (School/Department Specific)

Appendix F: Services Provided

Pedagogy Subcommittee

Appendix G: Faculty Survey Descriptive Statistics

Peers & Aspirants Subcommittee

Appendix H: CIC Course Sections Survey on LMS Usage

Appendix I: CIC Instructional Technology Spreadsheet

CLIMATE SUBCOMMITTEE

Appendix A

Faculty Survey Descriptive Statistics

Faculty Instructional Technology Assessment Survey

Fall 2014

Publically available results for the 666 participants who completed the survey

| 1. How long have you been teaching in higher education? | | | | |
|--|-----------------------|--|----------|------|
| # | Answer | | Response | % |
| 1 | This is my first year | | 0 | 0% |
| 2 | Less than 5 years | | 113 | 17% |
| 3 | 6-10 years | | 120 | 18% |
| 4 | More than 10 years | | 433 | 65% |
| | Total | | 666 | 100% |

| 2. How long have you been teaching at Rutgers University/UMDNJ? | | | | |
|--|---|--|----------|------|
| # | Answer | | Response | % |
| 1 | This is my first year teaching at Rutgers | | 0 | 0% |
| 2 | Less than 5 years | | 185 | 28% |
| 3 | 6-10 years | | 132 | 20% |
| 4 | More than 10 years | | 349 | 52% |
| | Total | | 666 | 100% |

3. In the 2013-2014 academic year, with which campus and school were you primarily affiliated?

| Answer | Total Responses |
|--|-----------------|
| Rutgers University-New Brunswick ~ School of Arts & Sciences | 150 |
| Rutgers University-New Brunswick | 117 |
| Rutgers University-New Brunswick ~ School of Environmental & Biological Sci | 44 |
| Rutgers University-Newark ~ Newark College of Arts and Sciences | 38 |
| Rutgers University-Camden ~ Camden College of Arts & Sciences | 36 |
| Rutgers University-Camden | 27 |
| Rutgers University-New Brunswick ~ School of Communication & Info | 23 |
| Rutgers University-Newark | 22 |
| Rutgers University-Newark ~ Rutgers Business School - Newark/New Brunswick | 21 |
| Rutgers University-New Brunswick ~ Graduate School of Education | 20 |
| Rutgers University-New Brunswick ~ Bloustein School of Planning | 19 |
| Rutgers University-New Brunswick ~ School of Management & Labor Rel | 16 |
| Rutgers University-New Brunswick ~ School of Engineering | 15 |
| Rutgers University-Camden ~ Rutgers School of Law - Camden | 13 |
| Rutgers University-New Brunswick ~ School of Social Work | 12 |
| Rutgers University-New Brunswick ~ Mason Gross School of the Arts | 12 |
| Rutgers University-Newark ~ Rutgers School of Law - Newark | 10 |
| Rutgers University-New Brunswick ~ Rutgers Business School - Newark/New Brunswick | 9 |
| Rutgers University-Camden ~ Rutgers Business School - Camden | 8 |
| Rutgers University-New Brunswick ~ The Graduate School-New Brunswick | 7 |
| Rutgers Biomedical and Health Sciences ~ Ernest Mario School of Pharmacy | 7 |
| Rutgers University-Newark ~ School of Public Affairs & Admin | 5 |
| Rutgers University-Newark ~ The Graduate School-Newark | 4 |
| Rutgers Biomedical and Health Sciences ~ School of Nursing - Rutgers University-New Brunswick & Rutgers University-Newark campus | 4 |
| Rutgers University-Camden ~ The Graduate School-Camden | 2 |
| Rutgers University-New Brunswick ~ Grad School | 2 |




| | |
|--|-----|
| of Applied & Prof Psych | |
| Rutgers University-New Brunswick ~ Continuous Education | 2 |
| Rutgers Biomedical and Health Sciences | 2 |
| Rutgers University-Camden ~ School of Nursing - Camden | 2 |
| Rutgers University-Newark ~ School of Social Work | 2 |
| Rutgers University-Newark ~ School of Criminal Justice | 1 |
| Rutgers Biomedical and Health Sciences ~ School of Biomedical Sciences | 1 |
| Rutgers Biomedical and Health Sciences ~ School of Public Health | 1 |
| Rutgers University-New Brunswick ~ School of Nursing - Rutgers University-New Brunswick & Rutgers University-Newark campus | 1 |
| Total | 655 |

| Statistic | Campus | School or College |
|-----------------|---|-----------------------------------|
| Most Common | Rutgers University-New Brunswick (68.55%) | School of Arts & Sciences (30.8%) |
| Total Responses | 655 | 487 |

4. Which best describes your teaching role at Rutgers University during the 2013-2014 academic year?

| # | Answer | Response | % |
|---|--------------------|----------|------|
| 1 | Full time faculty | 497 | 75% |
| 2 | Part time lecturer | 145 | 22% |
| 3 | Not applicable | 22 | 3% |
| | Total | 664 | 100% |



5. In the 2013-2014 academic year, in which format did you teach? (check all that apply)

| # | Answer | | Response |
|---|---|--|----------|
| 1 | Face-to-face (traditional class where most meetings are held in person) |  | 617 |
| 3 | Online (no more than three in person class meetings for the duration of the course) |  | 94 |
| 2 | Hybrid (at least 1/3 of classes conducted online and remaining classes taught in person for the duration of the course) |  | 74 |

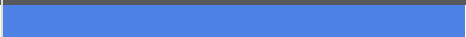




6. Drag and drop to rank the order of the format in which you prefer to teach with 1 being your most preferred.

| # | Answer | 1 | 2 | 3 |
|---|---|-----|-----|-----|
| 1 | Face-to-face (traditional class where most meetings are held in person) | 136 | 51 | 33 |
| 2 | Hybrid (at least 1/3 of classes conducted online and remaining classes taught in person for the duration of the course) | 56 | 107 | 57 |
| 3 | Online (no more than three in person class meetings for the duration of the course) | 28 | 62 | 130 |
| | Total | 220 | 220 | 220 |

7. Have you ever been, or are you currently, a STUDENT in a course in the following formats? (check all that apply)

| # | Answer | | Response |
|---|---|--|----------|
| 2 | Completely online (no more than three in person class meetings for the duration of the course) |  | 97 |
| 1 | Hybrid (at least 1/3 of classes conducted online and remaining classes taught in person for the duration of the course) |  | 45 |

8. During the 2013-2014 academic year, which of the following did you own? (check all that apply)

| # | Answer | | Response |
|---|-------------------|---|----------|
| 1 | Laptop |  | 642 |
| 3 | Smartphone |  | 543 |
| 2 | Desktop computer |  | 459 |
| 4 | Tablet |  | 400 |
| 5 | eReader |  | 181 |
| 6 | None of the above | | 3 |

9. During the 2013-2014 academic year, did you do any of the following for academic and/or social/personal reasons?

| # | Question | I did this for academic reasons. | I did this for social/personal reasons. |
|----|--|----------------------------------|---|
| 18 | Created electronic presentations (e.g., PowerPoint, Prezi) | 582 | 119 |
| 6 | Watched online videos | 544 | 539 |
| 10 | Utilized electronic library resources | 544 | 199 |
| 19 | Analyzed data with spreadsheets | 481 | 214 |
| 17 | Attended virtual sessions (e.g., Skype, Google Hangouts, Collaborate, Connect, GoToMeeting) | 419 | 249 |
| 14 | Collaborated on shared documents (e.g., Google docs) | 398 | 169 |
| 15 | Read blogs | 360 | 377 |
| 1 | Sent text messages | 312 | 578 |
| 20 | Collected data via an online survey (Survey Monkey, Qualtrics, learning management software) | 289 | 69 |
| 9 | Read eBooks | 252 | 342 |
| 11 | Listened to podcasts | 250 | 272 |
| 7 | Created videos (e.g., narrated presentations, webcam videos, screencasts) | 206 | 70 |
| 8 | Uploaded videos to Internet | 193 | 104 |
| 2 | Sent instant messages/online chat | 167 | 302 |
| 5 | Utilized Facebook | 147 | 388 |
| 3 | Followed someone on Twitter | 124 | 140 |
| 4 | Sent out Tweets | 87 | 107 |
| 13 | Edited a wiki | 79 | 34 |
| 16 | Posted to my own blog | 69 | 57 |
| 12 | Created a podcast | 38 | 16 |

10. In the 2013-2014 academic year, which of the following classroom instructional technologies did you use during your on-campus class meetings? Which ones would you like to learn more about?

| # | Question | I used... | I would like to learn more about... | I would have used this technology, but it wasn't available in the classroom... |
|----|---|-----------|-------------------------------------|--|
| 7 | Smartboard | 69 | 123 | 104 |
| 8 | Personal response systems (e.g., clickers, online polls) | 98 | 97 | 54 |
| 9 | Annotation software | 61 | 92 | 28 |
| 3 | Tablet connected to classroom projector | 78 | 92 | 54 |
| 12 | Recording of live lecture | 96 | 87 | 36 |
| 11 | Web conferencing during class time (e.g., Skype, Collaborate/Elluminate, Adobe Connect, GoToMeeting, Google Hangouts) | 124 | 78 | 30 |
| 6 | Document camera | 43 | 59 | 30 |
| 10 | Webcam | 98 | 41 | 26 |
| 4 | University wireless to connect laptop, smartphone, or tablet. | 396 | 35 | 33 |
| 1 | Podium computer with projector | 460 | 21 | 50 |
| 2 | Laptop connected to classroom projector | 508 | 17 | 12 |
| 5 | DVD or Blu-ray player | 204 | 8 | 11 |

11. In the 2013-2014 academic year, what was the personal response system (e.g., clickers) you used most frequently at Rutgers University?

| # | Answer | Response |
|---|---|----------|
| 1 | iClicker | 37 |
| 3 | Phone or laptop polling software (e.g., Top Hat, Poll Everywhere) | 26 |
| 5 | Other: | 15 |
| 2 | Turning Technology | 11 |
| 4 | I don't know | 6 |
| | Total | 95 |

12. In the 2013-2014 academic year, how did you use a personal response system? (check all that apply)

| # | Answer | | Response |
|---|---|--|----------|
| 2 | Pose questions to students during class | | 73 |
| 1 | Take attendance | | 41 |
| 4 | Group activities | | 32 |
| 6 | Review for test or quiz | | 27 |
| 3 | Administer tests or quizzes | | 24 |
| 5 | Other: | | 12 |

13. Which best describes how often you would like to use a classroom with the following technology.

| # | Question | Never | 2-3 times a semester | Less than half the classes during a semester | More than half the classes during a semester | Every class |
|---|---|-------|----------------------|--|--|-------------|
| 7 | Students bring their own laptop | 176 | 84 | 67 | 79 | 189 |
| 8 | Students bring their own tablet | 246 | 60 | 47 | 59 | 127 |
| 1 | A classroom with a computer for every student | 247 | 119 | 62 | 62 | 111 |
| 9 | Students bring a smartphone | 330 | 48 | 29 | 34 | 87 |
| 2 | Mobile cart of laptops | 354 | 60 | 28 | 21 | 44 |
| 6 | Mobile cart of tablets | 364 | 51 | 25 | 23 | 34 |

14. In the 2013-2014 academic year, how did you have students use computers in a classroom with computers? If you could have a classroom with computers in it, how would you like students to use the computers? (check all that apply)

| # | Question | I had students.... | I would like students to... | Total Responses |
|---|------------------------------|--------------------|-----------------------------|-----------------|
| 2 | Work on projects | 252 | 156 | 408 |
| 1 | Conduct research | 214 | 143 | 357 |
| 4 | Access databases | 188 | 151 | 339 |
| 6 | Utilize specialized software | 158 | 127 | 285 |
| 3 | Take tests | 76 | 123 | 199 |
| 5 | Other | 42 | 22 | 64 |

15. In the 2013-2014 academic year, did you use instructional technology regularly to do the following? What would you like to learn more about? (check all that apply)

| # | Question | I did... | I would like to learn more about how to... |
|----|--|----------|--|
| 1 | Use plagiarism detection software | 258 | 135 |
| 2 | Create online/narrated presentations for instruction | 198 | 129 |
| 6 | Communicate with full class of students via web conferencing outside of class meeting times (e.g., Skype, Collaborate/Elluminate, Google Hangouts, Adobe Connect, GoToMeeting) | 83 | 128 |
| 13 | Record live lecture | 81 | 114 |
| 11 | Facilitate online synchronous instructional sessions (e.g., live lecture, recitation) | 51 | 114 |
| 7 | Communicate with individual or small groups of students via web conferencing (e.g., Skype, Collaborate/Elluminate, Google Hangouts, Adobe Connect, GoToMeeting) | 110 | 108 |
| 27 | Create a simulation | 37 | 100 |
| 9 | Create a class blog | 65 | 92 |
| 19 | Create a class wiki | 44 | 89 |
| 14 | Provide closed caption or lecture transcripts | 30 | 89 |
| 15 | Create a VoiceThread | 19 | 85 |
| 16 | Map curriculum (e.g., with AEFIS) | 5 | 77 |
| 12 | Share an online course calendar | 206 | 68 |
| 3 | Share multimedia with students (e.g., via YouTube, Flickr, Kaltura) | 322 | 52 |
| 4 | Communicate with students via instant messaging (e.g., Google | 191 | 39 |

| | | | |
|----|---|-----|----|
| | Chat, Sakai or eCollege/Pearson Chat) | | |
| 5 | Interact with students via social networking (e.g., Twitter, Facebook, Pinterest) | 61 | 39 |
| 17 | Track student medical procedures (e.g., with axiUm) | 3 | 26 |
| 18 | Communicate with students via email | 623 | 3 |

16. Which electronic survey program did you use? (check all that apply)

| # | Answer | Response | % |
|---|--|----------|----|
| 1 | Qualtrics | 0 | 0% |
| 2 | SurveyMonkey | 0 | 0% |
| 3 | Google Forms | 0 | 0% |
| 4 | Other: | 0 | 0% |
| 5 | Learning management system quiz/survey | 0 | 0% |

17. In the 2013-2014 academic year, which learning management system(s) (LMS) did you use while teaching at Rutgers University? (check all that apply)

| # | Answer | Response |
|---|-------------------|----------|
| 5 | Sakai | 449 |
| 1 | Blackboard | 152 |
| 3 | eCollege/Pearson | 124 |
| 7 | Didn't use an LMS | 40 |
| 6 | Other: | 27 |
| 4 | Moodle | 9 |
| 2 | Canvas | 3 |

18. Which learning management system (LMS) do you prefer to use?


| # | Answer | Response |
|---|------------------|----------|
| 5 | Sakai | 56 |
| 1 | Blackboard | 24 |
| 3 | eCollege/Pearson | 21 |
| 7 | No preference | 13 |
| 6 | Other: | 10 |
| 4 | Moodle | 2 |
| 2 | Canvas | 1 |
| | Total | 127 |

19. In the 2013-2014 academic year at Rutgers University, check all the ways you used a learning management system (LMS) to regularly do the following. Identify what you would like to learn more about. (check all that apply)

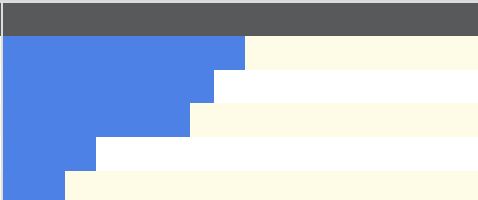





| # | Question | I used an LMS to: | I would like to learn more about how to use an LMS to: | Total Responses |
|---|---|-------------------|--|-----------------|
| 8 | Teach a live online session (e.g., via Collaborate/Elluminate, Adobe Connect) | 55 | 128 | 183 |
| 7 | Administer tests or quizzes | 174 | 77 | 251 |
| 4 | Create online discussion | 312 | 45 | 357 |
| 6 | Enter/calculate student grades | 387 | 35 | 422 |
| 5 | Have students submit assignments (e.g., through the LMS dropbox, assignment tool) | 408 | 26 | 434 |
| 1 | Post content/materials (e.g., syllabus, documents, presentations, videos) | 573 | 7 | 580 |
| 2 | Send students emails | 535 | 5 | 540 |
| 3 | Make class announcements | 560 | 4 | 564 |

20. In the 2013-2014 academic year, I had my STUDENTS use instructional technology to: (check all that apply)

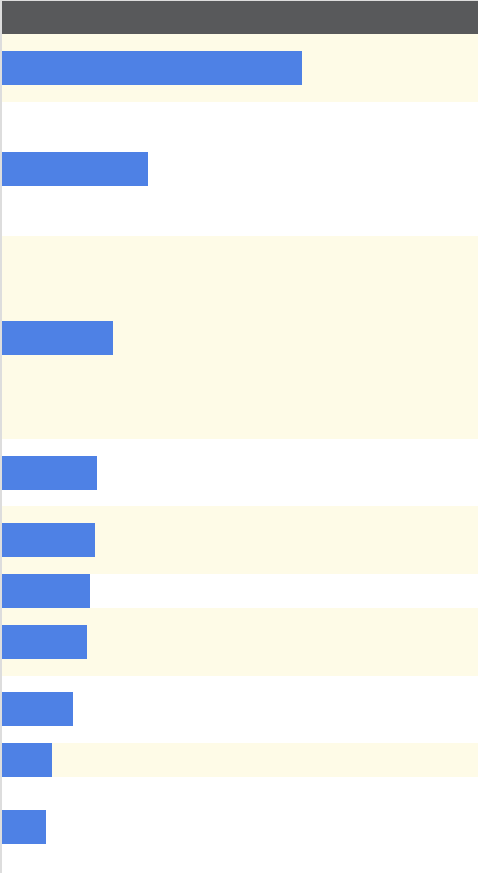
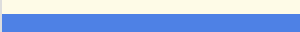









| # | Answer | | Response |
|----|---|--|----------|
| 17 | Present information to the class (e.g., via PowerPoint, Prezi, video) | | 366 |
| 3 | Create an electronic presentation (e.g., using PowerPoint, Prezi, video) | | 346 |
| 2 | Conduct research that required electronic library resources | | 337 |
| 14 | Complete course evaluations | | 327 |
| 1 | Access textbook publisher materials | | 227 |
| 7 | Analyze data | | 192 |
| 5 | Communicate electronically about academic content with experts, peers, and/or others | | 178 |
| 9 | Collaborate using shared documents (e.g., Google Docs, ScarletApps) | | 135 |
| 15 | Solve problems that involved situations, issues, and tasks that people tackle outside a classroom | | 98 |
| 4 | Present information to an external audience (e.g., PowerPoint, Prezi, video) | | 76 |
| 6 | Gather data through an electronic survey | | 70 |
| 12 | Create or post to a blog | | 61 |
| 8 | Create products for an external audience (e.g., website) | | 53 |
| 11 | Create or contribute to a wiki | | 33 |
| 10 | Utilize an online simulation | | 32 |

| | | | |
|----|------------------------------------|---|----|
| 13 | Create or respond to a VoiceThread |  | 15 |
|----|------------------------------------|---|----|

21. Which survey tool did your students use? (check all the apply)

| # | Answer |  | Response |
|---|----------------|--|----------|
| 2 | SurveyMonkey |  | 31 |
| 3 | Google Forms |  | 27 |
| 1 | Qualtrics |  | 24 |
| 4 | Student choice |  | 12 |
| 5 | Other: |  | 8 |

22. In the 2013-2014 academic year, how did you HEAR ABOUT new instructional technology? (check all that apply)

| # | Answer |  | Response |
|----|--|---|----------|
| 1 | Shown or mentioned to me by colleague |  | 346 |
| 4 | Read about it in Rutgers University or Rutgers school email/bulletin |  | 168 |
| 7 | Received information from organization, professional publication, or journal article |  | 128 |
| 5 | Suggested at faculty meeting |  | 109 |
| 10 | Saw it on an external website |  | 107 |
| 3 | Saw it at conference |  | 101 |
| 2 | Shown or mentioned to me by student |  | 99 |
| 6 | Saw it on Rutgers University website |  | 81 |
| 9 | Other: |  | 58 |
| 8 | Saw it on social media (e.g., Twitter, Facebook) |  | 50 |

23. I learned how to use technology via...

| # | Question | Yes |
|---|--|-----|
| 5 | Online instructions | 260 |
| 1 | Face-to-face training session with a group | 170 |
| 7 | "How to" video (e.g., YouTube video) | 155 |
| 2 | One-on-one session | 148 |
| 3 | Collaborative effort with colleagues | 138 |
| 4 | Webinar | 102 |
| 8 | Self-paced online course | 62 |
| 6 | Departmental/faculty meeting | 62 |
| 9 | Collaborative online course | 29 |

24. I prefer to learn how to use technology via...

| # | Question | Strongly disagree | Disagree | Agree | Strongly agree | No opinion | Total Responses |
|---|--|-------------------|----------|-------|----------------|------------|-----------------|
| 2 | One-on-one session | 34 | 30 | 141 | 182 | 43 | 430 |
| 1 | Face-to-face training session with a group | 50 | 50 | 137 | 149 | 44 | 430 |
| 5 | Online instructions | 30 | 46 | 142 | 144 | 36 | 398 |
| 3 | Collaborative effort with colleagues | 31 | 40 | 142 | 132 | 60 | 405 |
| 7 | "How to" video (e.g., YouTube video) | 30 | 46 | 150 | 110 | 49 | 385 |
| 8 | Self-paced online course | 40 | 58 | 134 | 98 | 59 | 389 |
| 4 | Webinar | 53 | 65 | 117 | 89 | 54 | 378 |
| 9 | Collaborative online course | 60 | 90 | 89 | 39 | 87 | 365 |
| 6 | Departmental/faculty meeting | 88 | 81 | 109 | 36 | 68 | 382 |

25. I used this resource...

| # | Question | Never | Once a semester | Once a month | Once a week | Not applicable | Total Responses |
|---|---|-------|-----------------|--------------|-------------|----------------|-----------------|
| 1 | University staff (e.g., Help Desk, instructional designer/technologist, department support) | 102 | 285 | 165 | 28 | 15 | 595 |
| 4 | Colleague | 148 | 197 | 122 | 23 | 30 | 520 |
| 6 | Rutgers University website | 222 | 136 | 74 | 18 | 36 | 486 |
| 5 | Student | 270 | 93 | 65 | 12 | 46 | 486 |
| 2 | People outside of Rutgers | 286 | 91 | 60 | 14 | 52 | 503 |
| 3 | Faculty Development Center (e.g., CTAAR) | 355 | 66 | 10 | 4 | 49 | 484 |
| 7 | Other | 38 | 5 | 7 | 9 | 17 | 76 |

26. I found this resource to be...

| # | Question | Effective | Ineffective | No opinion | Total Responses |
|---|---|-----------|-------------|------------|-----------------|
| 1 | University staff (e.g., Help Desk, instructional designer/technologist, department support) | 375 | 28 | 41 | 444 |
| 4 | Colleague | 256 | 10 | 55 | 321 |
| 6 | Rutgers University website | 130 | 33 | 105 | 268 |
| 5 | Student | 127 | 4 | 106 | 237 |
| 2 | People outside of Rutgers | 125 | 13 | 108 | 246 |
| 3 | Faculty Development Center (e.g., CTAAR) | 72 | 8 | 142 | 222 |
| 7 | Other | 17 | 2 | 37 | 56 |

27. How strongly do you agree with the following statements? Challenges that limit the use of instructional technology in my teaching are...

| # | Question | Strongly Disagree | Disagree | Agree | Strongly agree | No opinion | Total Responses |
|----|---|-------------------|----------|-------|----------------|------------|-----------------|
| 10 | Students use technology for non-class purposes while in class. | 36 | 62 | 237 | 223 | 51 | 609 |
| 2 | Need additional or better professional development | 46 | 108 | 264 | 118 | 62 | 598 |
| 1 | Too much time and effort to implement | 56 | 163 | 247 | 109 | 39 | 614 |
| 5 | Not enough support from my department | 89 | 232 | 122 | 91 | 60 | 594 |
| 7 | Use of instructional technology doesn't count toward promotion or tenure | 81 | 109 | 112 | 86 | 198 | 586 |
| 18 | Technology not reliable | 70 | 193 | 182 | 72 | 66 | 583 |
| 6 | Instructional technology would not improve teaching or learning in my courses | 144 | 229 | 115 | 67 | 48 | 603 |
| 9 | Technology in the classroom is distracting while I'm teaching | 139 | 222 | 139 | 60 | 39 | 599 |
| 4 | Not sure where to get help with | 92 | 266 | 150 | 59 | 34 | 601 |

| | | | | | | | |
|----|--|-----|-----|-----|----|----|-----|
| | technical problems | | | | | | |
| 3 | I'm not familiar with the instructional technology that is available at the University | 72 | 220 | 201 | 58 | 43 | 594 |
| 12 | Students' low technology skills | 153 | 274 | 84 | 23 | 52 | 586 |
| 11 | Other: | 0 | 5 | 9 | 21 | 19 | 54 |
| 8 | I'm not comfortable using technology | 258 | 254 | 52 | 16 | 16 | 596 |

28. How strongly do you agree with the following statements?

| # | Question | Strongly disagree | Disagree | Agree | Strongly agree | No opinion | Total Responses |
|---|---|-------------------|----------|-------|----------------|------------|-----------------|
| 8 | Instructional technology can improve student learning. | 21 | 46 | 315 | 181 | 72 | 635 |
| 1 | I have been given sufficient opportunities to participate in professional development/training related to instructional technology. | 49 | 194 | 249 | 68 | 74 | 634 |

CLIMATE SUBCOMMITTEE

Appendix B

Student Survey Descriptive Statistics

Surveys completed

Last Modified: 02/03/2015

Filter By: Report Subgroup

1. In the 2013-2014 academic year, what year were you in?

| # | Answer | Bar | Response | % |
|---|---|-----|----------|-----|
| 1 | 1st-year undergraduate student | | 247 | 17% |
| 2 | Other undergraduate student | | 787 | 53% |
| 3 | Graduate student | | 449 | 30% |
| 4 | Not a student at Rutgers University last year | | 0 | 0% |
| | Total | | 1,483 | |

2. In the 2013-2014 academic year, with which campus and school were you primarily affiliated?

| Answer | Total Responses |
|--|-----------------|
| Rutgers University-Newark ~ School of Criminal Justice | 15 |
| Rutgers University-New Brunswick ~ School of Communication & Info | 43 |
| Rutgers University-New Brunswick | 137 |
| Rutgers University-New Brunswick ~ School of Environmental & Biological Sci | 104 |
| Rutgers University-Camden ~ Rutgers Business School - Camden | 20 |
| Rutgers University-New Brunswick ~ School of Arts & Sciences | 391 |
| Rutgers University-Newark ~ Rutgers Business School - Newark/New Brunswick | 71 |
| Rutgers University-Camden ~ Camden College of Arts & Sciences | 52 |
| Rutgers University-New Brunswick ~ The Graduate School-New Brunswick | 53 |
| Rutgers University-New Brunswick ~ Rutgers Business School - Newark/New Brunswick | 79 |
| Rutgers University-New Brunswick ~ School of Engineering | 85 |
| Rutgers University-New Brunswick ~ Bloustein School of Planning | 10 |
| Rutgers University-Newark ~ School of Public Affairs & Admin | 15 |
| Rutgers University-Newark | 52 |
| Rutgers University-Newark ~ Newark College of Arts and Sciences | 61 |
| Rutgers University-New Brunswick ~ School of Social Work | 36 |
| Rutgers University-New Brunswick ~ School of Management & Labor Rel | 17 |
| Rutgers University-Camden ~ School of Nursing - Camden | 21 |
| Rutgers University-Camden ~ The Graduate School-Camden | 15 |
| Rutgers University-Camden | 28 |
| Rutgers University-Newark ~ Rutgers School of Law - Newark | 17 |
| Rutgers University-Camden ~ Rutgers School of Law - Camden | 14 |
| Rutgers University-Newark ~ The Graduate School-Newark | 21 |
| Rutgers Biomedical and Health Sciences ~ School of Public Health | 1 |
| Rutgers University-Newark ~ School of Social Work | 7 |
| Rutgers University-Camden ~ School of Social Work | 10 |
| Rutgers Biomedical and Health Sciences ~ Ernest Mario School of Pharmacy | 16 |
| Rutgers University-New Brunswick ~ School of Nursing - Rutgers University-New Brunswick & Rutgers University-Newark campus | 7 |
| Rutgers University-New Brunswick ~ Mason Gross School of the Arts | 13 |
| Rutgers University-New Brunswick ~ Graduate School of Education | 22 |
| Rutgers Biomedical and Health Sciences ~ School of Biomedical Sciences | 2 |
| Rutgers University-New Brunswick ~ Continuous Education | 1 |
| Rutgers Biomedical and Health Sciences ~ School of Nursing - Rutgers University-New Brunswick & Rutgers University-Newark campus | 5 |
| Rutgers University-New Brunswick ~ Grad School of Applied & Prof Psych | 6 |
| Total | 1,447 |

| Statistic | Campus | School or College |
|-----------------|---|------------------------------------|
| Most Common | Rutgers University-New Brunswick (69.38%) | School of Arts & Sciences (31.79%) |
| Total Responses | 1,447 | 1,230 |

3. In the 2013-2014 academic year, were you any of the following? (check all that apply)

| # | Answer | Bar | Response |
|---|---|-----|----------|
| 1 | Transfer student | | 204 |
| 2 | Non-matriculated student (taking courses but not attempting to earn a degree) | | 46 |
| 3 | Part-time student | | 227 |
| 4 | None of the above | | 1,001 |

4. Which best describes your school-year residence in the 2013-2014 academic year?

| | Answer | Bar | Response |
|---|----------------|-----|----------|
| 1 | Commuter | | 831 |
| 2 | Residence Hall | | 469 |
| 3 | Other | | 181 |
| | Total | | 1,481 |

5. When you compare your learning experience in high school with your experience at Rutgers University in the 2013-2014 school year, did your high school use technology for more or less of the following?

| # | Question | My high school did not use this | My high school used this, less than Rutgers | My high school used this, about the same as Rutgers | My high school used this, more than Rutgers | Not applicable | Total Responses |
|----|--|---------------------------------|---|---|---|----------------|-----------------|
| 2 | Utilize mobile devices during instruction (e.g., iPads, smartphones) | 101 | 58 | 43 | 33 | 12 | 247 |
| 3 | Utilize Smartboards | 40 | 28 | 38 | 129 | 11 | 246 |
| 4 | Post grades online | 25 | 33 | 99 | 87 | 3 | 247 |
| 5 | Post assignments online | 56 | 99 | 75 | 14 | 3 | 247 |
| 7 | Integrate student creation of videos | 47 | 70 | 58 | 62 | 10 | 247 |
| 8 | Integrate student creation of digital content (e.g., PowerPoint, Prezi, websites) | 17 | 51 | 99 | 75 | 5 | 247 |
| 9 | Integrate students working collaboratively on electronic documents (e.g., Google docs) | 49 | 59 | 89 | 41 | 9 | 247 |
| 11 | Utilize online textbooks/ebooks | 131 | 60 | 33 | 17 | 6 | 247 |
| 13 | Submit assignments online | 67 | 107 | 62 | 7 | 3 | 246 |
| 19 | Post course content online | 76 | 103 | 52 | 12 | 3 | 246 |
| 20 | Make electronic announcements | 56 | 128 | 51 | 8 | 3 | 246 |

6. Did your high school offer online courses? (an online course is defined as having no more than three in person class meetings for the duration of the course)

| # | Answer | Bar | Response |
|---|--------------|-----|----------|
| 1 | Yes | | 38 |
| 2 | No | | 187 |
| 3 | I'm not sure | | 22 |
| | Total | | 247 |

7. How many online courses (no more than three in person class meetings for the duration of the course) did you take while you were in high school?

| # | Answer | Bar | Response |
|---|----------------------------|-----|----------|
| 1 | None | | 181 |
| 2 | 1-3 online courses | | 23 |
| 3 | More than 3 online courses | | 1 |
| 4 | Not applicable | | 41 |
| | Total | | 246 |

8. In the 2013-2014 academic year, what types of courses did you take at Rutgers University (select all that apply)

| # | Answer | Bar | Response |
|---|---|-----|----------|
| 1 | Face-to-face (traditional class where most meetings are held in person) | | 1,395 |
| 2 | Online (no more than three in person class meetings for the duration of the course) | | 303 |
| 3 | Hybrid (at least 1/3 of classes conducted online and remaining classes taught in person for the duration of the course) | | 209 |

9. Drag and drop to rank the order of the format in which you prefer taking your courses, with 1 being your most preferred.

| # | Answer | 1 | 2 | 3 | Total Responses |
|---|---|-----|-----|-----|-----------------|
| 1 | Face-to-face (traditional class where most meetings are held in person) | 544 | 178 | 110 | 832 |
| 2 | Online (no more than three in person class meetings for the duration of the course) | 142 | 274 | 416 | 832 |
| 4 | Hybrid (at least 1/3 of classes conducted online and remaining classes taught in person for the duration of the course) | 146 | 380 | 306 | 832 |
| | Total | 832 | 832 | 832 | - |




10. During the 2013-2014 academic year, which of the following technologies did you have access to or available to take to a face-to-face class? (check all the apply)

| # | Question | I had access to a... | I could take to class a... | Total Responses |
|---|------------|----------------------|----------------------------|-----------------|
| 1 | Laptop | 1,161 | 1,068 | 2,229 |
| 2 | Tablet | 557 | 658 | 1,215 |
| 3 | Smartphone | 1,097 | 951 | 2,048 |
| 4 | Clicker | 586 | 555 | 1,141 |

11. During the 2013-2014 academic year, did you use a Rutgers University Computing Center computer?

| # | Answer | Bar | Response |
|---|----------|-----|----------|
| 2 | Yes | | 1,099 |
| 4 | No | | 332 |
| 5 | Not sure | | 47 |
| | Total | | 1,478 |

12. During the 2013-2014 academic year, did you have access to a laptop or desktop computer?

| # | Answer | Bar | Response |
|---|----------------|---|----------|
| 2 | Yes |  | 1,450 |
| 4 | No |  | 14 |
| 5 | Not applicable |  | 13 |
| | Total | | 1,477 |

13. In the 2013-2014 academic year, on average how often did you use a SMARTPHONE to do the following?

| # | Question | Never | Once a semester | Once a month | Once a week or more | Not applicable | Total Responses | Mean |
|----|--|-------|-----------------|--------------|---------------------|----------------|-----------------|------|
| 1 | Access course materials or resources | 207 | 83 | 274 | 710 | 34 | 1,308 | 3.87 |
| 2 | Check my grades | 201 | 142 | 291 | 646 | 29 | 1,309 | 3.99 |
| 3 | Communicate with my instructors | 399 | 197 | 351 | 329 | 30 | 1,306 | 4.47 |
| 4 | Communicate with other students | 98 | 46 | 157 | 993 | 17 | 1,311 | 3.45 |
| 5 | Conduct research | 580 | 127 | 198 | 333 | 72 | 1,310 | 4.66 |
| 6 | Work on a class assignment | 705 | 162 | 190 | 213 | 40 | 1,310 | 4.78 |
| 7 | Work on group project | 699 | 160 | 192 | 184 | 71 | 1,306 | 4.91 |
| 8 | Take a quiz or exam | 1,055 | 62 | 58 | 65 | 66 | 1,306 | 5.11 |
| 9 | Submit a class assignment | 845 | 144 | 135 | 139 | 47 | 1,310 | 4.94 |
| 10 | Research and/or register for courses | 647 | 332 | 162 | 128 | 36 | 1,305 | 5.04 |
| 11 | Use learning management system (e.g., Blackboard, Canvas, eCollege/Pearson, Moodle, Sakai) | 316 | 109 | 250 | 599 | 36 | 1,310 | 4.09 |
| 12 | Read textbooks | 796 | 112 | 152 | 203 | 47 | 1,310 | 4.80 |
| 13 | Photograph information | 296 | 110 | 314 | 549 | 37 | 1,306 | 4.12 |
| 14 | Record my instructor | 941 | 84 | 89 | 146 | 49 | 1,309 | 4.92 |

14. In the 2013-2014 academic year, on average how often did you use a TABLET to do the following?

| # | Question | Never | Once a semester | Once a month | Once a week or more | Not applicable | Total Responses |
|----|--|-------|-----------------|--------------|---------------------|----------------|-----------------|
| 1 | Access course materials or resources | 247 | 30 | 91 | 328 | 146 | 842 |
| 2 | Check my grades | 281 | 62 | 123 | 228 | 148 | 842 |
| 3 | Communicate with my instructors | 359 | 58 | 124 | 152 | 148 | 841 |
| 4 | Communicate with other students | 356 | 40 | 97 | 200 | 147 | 840 |
| 5 | Conduct research | 338 | 32 | 79 | 229 | 163 | 841 |
| 6 | Work on a class assignment | 339 | 41 | 89 | 216 | 156 | 841 |
| 7 | Work on group project | 397 | 44 | 75 | 147 | 175 | 838 |
| 8 | Take a quiz or exam | 530 | 26 | 31 | 81 | 173 | 841 |
| 9 | Submit a class assignment | 424 | 40 | 59 | 161 | 156 | 840 |
| 10 | Research and/or register for courses | 369 | 106 | 92 | 124 | 150 | 841 |
| 11 | Use learning management system (e.g., Blackboard, Canvas, eCollege/Pearson, Moodle, Sakai) | 287 | 35 | 104 | 264 | 150 | 840 |
| 12 | Read textbooks | 320 | 27 | 75 | 268 | 150 | 840 |
| 13 | Photograph information | 464 | 42 | 48 | 127 | 154 | 835 |
| 14 | Record my instructor | 582 | 13 | 17 | 63 | 163 | 838 |

15. In the 2013-2014 academic year, on average how often did you use a LAPTOP or your DESKTOP COMPUTER to do the following?

| # | Question | Never | Once a semester | Once a month | Once a week or more | Not applicable | Total Responses |
|----|--|-------|-----------------|--------------|---------------------|----------------|-----------------|
| 1 | Access course content | 13 | 12 | 46 | 1,367 | 16 | 1,454 |
| 2 | Check my grades | 23 | 126 | 192 | 1,100 | 17 | 1,458 |
| 3 | Communicate with my instructors | 32 | 74 | 365 | 977 | 12 | 1,460 |
| 4 | Communicate with other students | 73 | 70 | 181 | 1,123 | 12 | 1,459 |
| 5 | Conduct research | 67 | 44 | 110 | 1,186 | 51 | 1,458 |
| 6 | Work on a class assignment | 14 | 19 | 35 | 1,369 | 21 | 1,458 |
| 7 | Work on group project | 94 | 99 | 216 | 939 | 108 | 1,456 |
| 8 | Take a quiz or exam | 210 | 132 | 217 | 798 | 97 | 1,454 |
| 9 | Submit a class assignment | 15 | 19 | 90 | 1,312 | 23 | 1,459 |
| 10 | Research and/or register for courses | 20 | 356 | 196 | 870 | 14 | 1,456 |
| 11 | Use learning management system (e.g., Blackboard, Canvas, eCollege/Pearson, Moodle, Sakai) | 63 | 27 | 46 | 1,298 | 22 | 1,456 |
| 12 | Read textbooks | 300 | 81 | 185 | 825 | 61 | 1,452 |

16. In the 2013-2014 academic year, on average how often did you use a RUTGERS UNIVERSITY COMPUTING CENTER computer to do the following?

| # | Question | Never | Once a semester | Once a month | Once a week or more | Not applicable | Total Responses |
|----|---|-------|-----------------|--------------|---------------------|----------------|-----------------|
| 1 | Access course content | 196 | 143 | 291 | 444 | 14 | 1,088 |
| 2 | Check my grades | 374 | 159 | 250 | 283 | 21 | 1,087 |
| 3 | Communicate with my instructors | 411 | 172 | 252 | 235 | 21 | 1,091 |
| 4 | Communicate with other students | 455 | 142 | 229 | 245 | 18 | 1,089 |
| 5 | Conduct research | 308 | 146 | 259 | 333 | 45 | 1,091 |
| 6 | Submit a class assignment | 275 | 143 | 286 | 365 | 20 | 1,089 |
| 7 | Work on group project | 365 | 180 | 233 | 244 | 62 | 1,084 |
| 8 | Take a quiz or exam | 545 | 124 | 170 | 198 | 50 | 1,087 |
| 9 | Work on class assignment | 203 | 154 | 306 | 410 | 16 | 1,089 |
| 10 | Research and/or register for courses | 453 | 222 | 177 | 206 | 19 | 1,077 |
| 11 | Print documents | 69 | 85 | 204 | 724 | 7 | 1,089 |
| 12 | Use learning management system (e.g., Blackboard, Canvas, eCollege/Pearson, Moodle,Sakai) | 231 | 103 | 267 | 466 | 18 | 1,085 |
| 13 | Read textbooks | 567 | 110 | 171 | 203 | 35 | 1,086 |
| 14 | Utilize specialized software | 408 | 115 | 229 | 298 | 38 | 1,088 |

17. In the 2013-2014 academic year, which best describes how often you brought the following to class?

| # | Question | Never | Less than half my classes | More than half my classes | Every class | Not applicable | Total Responses |
|---|------------|-------|---------------------------|---------------------------|-------------|----------------|-----------------|
| 1 | Laptop | 310 | 376 | 292 | 431 | 47 | 1,456 |
| 2 | Tablet | 547 | 181 | 119 | 168 | 423 | 1,438 |
| 3 | Smartphone | 72 | 20 | 55 | 1,205 | 101 | 1,453 |

18. During the 2013-2014 academic year, did you do any of the following for course or non-course use?

| # | Question | I did this for a course... | I did this for non-course use... |
|----|--|----------------------------|----------------------------------|
| 1 | Created electronic presentations (e.g., PowerPoint, Prezi) | 1,057 | 409 |
| 3 | Analyzed data with spreadsheets | 787 | 500 |
| 4 | Read blogs | 485 | 751 |
| 5 | Followed someone on Twitter | 150 | 696 |
| 6 | Utilized Facebook | 478 | 1,100 |
| 7 | Attended virtual sessions (e.g., Skype, Google Hangouts, Collaborate, Connect) | 509 | 583 |
| 8 | Collaborated on shared documents (e.g., Google docs) | 996 | 575 |
| 10 | Sent text messages | 734 | 1,186 |
| 11 | Sent instant messages/online chat | 601 | 1,014 |
| 13 | Read eBooks | 882 | 604 |
| 14 | Utilized electronic library resources | 1,019 | 368 |
| 17 | Created videos | 253 | 404 |
| 18 | Watched online videos | 1,070 | 1,001 |
| 19 | Created a podcast | 84 | 247 |
| 20 | Listened to podcasts | 301 | 473 |
| 21 | Posted to my own blog | 193 | 385 |
| 22 | Edited a wiki | 139 | 263 |
| 23 | Sent out Tweets | 133 | 657 |
| 33 | Collected data via an online survey | 426 | 345 |
| 34 | Uploaded videos to Internet | 226 | 401 |

19. During the 2013-2014 academic year, which best describes how often you used either a laptop, tablet or smartphone to do the following during class time?

| # | Question | Never | Less than half my classes | More than half my classes | Every class | Not applicable | Total Responses |
|---|---|-------|---------------------------|---------------------------|-------------|----------------|-----------------|
| 1 | Take notes | 347 | 365 | 273 | 377 | 18 | 1,380 |
| 2 | Respond to instructor's polling questions, Tweets, etc. | 670 | 283 | 142 | 128 | 156 | 1,379 |
| 3 | Research information related to course | 236 | 361 | 385 | 378 | 17 | 1,377 |
| 4 | Work on class projects/assignments | 281 | 403 | 341 | 320 | 28 | 1,373 |
| 5 | Check personal media (e.g., emails, Facebook, texts) | 230 | 410 | 300 | 406 | 31 | 1,377 |
| 6 | Review course materials (e.g., documents, websites) | 167 | 321 | 411 | 462 | 14 | 1,375 |

20. During the 2013-2014 school year, how many of your Rutgers University classes used a learning management system (e.g., Blackboard, Sakai, eCollege, Moodle)

| # | Answer | Bar | Response |
|---|----------------|-----|----------|
| 1 | None | | 27 |
| 2 | Less than 25% | | 39 |
| 3 | 26% to 50% | | 58 |
| 4 | 51% to 75% | | 154 |
| 5 | More than 75% | | 431 |
| 6 | All | | 749 |
| 7 | Not applicable | | 20 |
| | Total | | 1,478 |




21. During the 2013-2014 academic year, which of the following learning management systems (LMS) were used for your Rutgers University courses?
 (check all the apply)

| # | Answer | Bar | Response |
|---|------------------|-----|----------|
| 1 | Blackboard | | 474 |
| 2 | Canvas | | 6 |
| 3 | eCollege/Pearson | | 570 |
| 5 | Sakai | | 1,142 |
| 6 | Moodle | | 29 |
| 8 | Other | | 50 |

22. Which LMS do you prefer?

| # | Answer | Bar | Response |
|---|------------------|-----|----------|
| 1 | Blackboard | | 108 |
| 2 | Canvas | | 1 |
| 3 | eCollege/Pearson | | 107 |
| 4 | Moodle | | 6 |
| 5 | Sakai | | 416 |
| 6 | Other | | 5 |
| 7 | No preference | | 64 |
| | Total | | 707 |

23. Would you like your instructors to use a learning management system?

| # | Answer | Bar | Response |
|---|-----------|---|----------|
| 1 | Yes |  | 8 |
| 2 | No |  | 5 |
| 3 | Undecided |  | 14 |
| | Total | | 27 |

24. My instructors used technology to do the following...

| # | Question | Yes |
|----|--|-------|
| 1 | Sent/received emails or announcements | 1,298 |
| 3 | Used discussion boards | 838 |
| 4 | Allowed assignments to be submitted through a learning management system (e.g., Blackboard, eCollege/Pearson, Sakai, Moodle) | 1,214 |
| 5 | Recorded grades online | 1,290 |
| 6 | Administered online exams | 712 |
| 7 | Conducted live class online sessions | 338 |
| 8 | Posted video or audio content related to course content | 1,028 |
| 10 | Created an online space for collaboration (e.g., wikis) | 348 |
| 11 | Utilized online textbooks/ebooks | 749 |
| 12 | Posted course materials online(e.g., documents, links to websites, syllabi) | 1,396 |
| 22 | Created an online course calendar | 525 |
| 23 | Held online office hours | 353 |
| 24 | Utilized social media (e.g., Twitter, Facebook) | 237 |
| 25 | Sent/received text messages | 297 |
| 27 | Allowed use of laptops, smartphones, or tablets | 1,172 |
| 28 | Recorded and posted online their lectures | 610 |
| 29 | Instant messaged/online chat | 233 |
| 30 | Used clickers | 586 |

25. How much did your instructors use technology to do the following?

| # | Question | Used too little | Used the appropriate amount | Used too much | Undecided | Total Responses |
|----|--|-----------------|-----------------------------|---------------|-----------|-----------------|
| 1 | Sent/received emails or announcements | 102 | 1,067 | 47 | 37 | 1,253 |
| 3 | Used discussion boards | 192 | 549 | 75 | 74 | 890 |
| 4 | Allowed assignments to be submitted through a learning management system (e.g., Blackboard, eCollege/Pearson, Sakai, Moodle) | 121 | 994 | 46 | 26 | 1,187 |
| 5 | Recorded grades online | 361 | 841 | 17 | 25 | 1,244 |
| 6 | Administered online exams | 171 | 478 | 40 | 96 | 785 |
| 7 | Conducted live class online sessions | 102 | 229 | 25 | 97 | 453 |
| 8 | Posted video or audio content related to course content | 200 | 767 | 29 | 60 | 1,056 |
| 10 | Created an online space for collaboration (e.g., wikis) | 122 | 240 | 19 | 90 | 471 |
| 11 | Utilized online textbooks/ebooks | 220 | 512 | 36 | 80 | 848 |
| 12 | Posted course materials online(e.g., documents, links to websites, syllabi) | 72 | 1,185 | 34 | 20 | 1,311 |
| 22 | Created an online course calendar | 210 | 329 | 9 | 66 | 614 |
| 23 | Held online office hours | 158 | 231 | 14 | 81 | 484 |
| 24 | Utilized social media (e.g., Twitter, Facebook) | 116 | 163 | 20 | 93 | 392 |
| 25 | Sent/received text messages | 97 | 186 | 10 | 149 | 442 |
| 27 | Allowed use of laptops, smartphones, or tablets | 149 | 906 | 58 | 48 | 1,161 |
| 28 | Recorded and posted online their lectures | 251 | 376 | 16 | 61 | 704 |
| 29 | Instant messaged/online chat | 112 | 159 | 9 | 102 | 382 |
| 30 | Used clickers | 97 | 384 | 119 | 89 | 689 |

26. In the 2013-2014 academic year, which resources did you use when you needed help using technology for your course work? (check all that apply)

| # | Answer | Bar | Response |
|---|---|-----|----------|
| 1 | Rutgers University Help Desk | | 311 |
| 2 | Other students | | 737 |
| 3 | Instructors | | 474 |
| 4 | Other: | | 52 |
| 5 | Rutgers University Computing Services lab assistant | | 309 |
| 9 | I did not seek assistance | | 505 |

27. How strongly do you agree with the following statements?

| # | Question | Strongly Disagree | Disagree | Agree | Strongly Agree | Undecided | Total Responses |
|----|---|-------------------|----------|-------|----------------|-----------|-----------------|
| 1 | A learning management system (e.g., Blackboard, Sakai, eCollege) enhances my learning. | 34 | 86 | 666 | 582 | 94 | 1,462 |
| 2 | Mobile devices in class enhance my learning. | 155 | 409 | 391 | 298 | 201 | 1,454 |
| 3 | My Rutgers instructors utilize technology effectively. | 66 | 253 | 774 | 274 | 87 | 1,454 |
| 4 | It is useful to have my assignment grades posted online throughout the semester. | 20 | 13 | 314 | 1,081 | 34 | 1,462 |
| 5 | A learning management system helps to keep me organized. | 25 | 90 | 534 | 726 | 83 | 1,458 |
| 6 | My learning would be improved if my Rutgers instructors utilized technology more effectively. | 52 | 186 | 539 | 518 | 160 | 1,455 |
| 7 | Technology helps me to communicate with my instructors. | 26 | 42 | 608 | 748 | 36 | 1,460 |
| 8 | Technology helps me to communicate with my classmates. | 34 | 107 | 526 | 733 | 59 | 1,459 |
| 9 | Use of mobile devices in class is a distraction for me. | 136 | 365 | 504 | 301 | 142 | 1,448 |
| 10 | I know who to contact at Rutgers University for technical support for instructional technology. | 154 | 358 | 584 | 269 | 92 | 1,457 |
| 11 | The technical support I received from Rutgers University for instructional technology is effective. | 74 | 162 | 471 | 201 | 536 | 1,444 |

ORGANIZATION SUBCOMMITTEE

Appendix C

Instructional Technology Units at Rutgers

| Unit | Acronym Used in Report |
|---|-------------------------------|
| Academic & Informational Technologies & Services | AITs |
| Academic Affairs Instructional Technology (Rutgers School of Dental Medicine) | RSDM AA |
| Academic Technology Services | ATS |
| Arts, Culture, Media | ACM |
| Biological Sciences - Newark | BIOS-N |
| Center for Molecular and Behavioral Neuroscience | CMBN |
| Center for Online & Hybrid Learning and Instructional Technology | COHLIT |
| Center for Teaching Advancement and Assessment Research | CTAAR |
| Department of Electrical & Computer Engineering | ECE |
| Department of Mathematics – New Brunswick | M-NB |
| Department of Mechanical and Aerospace Engineering | MAE |
| Department of Physics and Astronomy | PHY |
| Digital Classroom Services | DCS |
| Division of Continuing Studies | DoCS |
| Division of Life Sciences | DLS |
| Edward J. Bloustein School of Planning and Public Policy | BSP |
| Engineering Computing Services | ECS |
| Graduate School of Applied and Professional Psychology | GSAPP |
| Graduate School of Education - Office of Information Technology | GSE-OIT |
| Instructional Design & Technology - Camden | IDT |
| Instructional Design and Technology Services (School of Comm. & Info) | IDTS |
| Instructional Technology & eLearning Solutions | ITeS |
| John Cotton Dana Library | DANA |
| Laboratory for Computer Science Research | LCSR |
| Mason Gross | MG |
| New Jersey Child Support Institute | NJCSI |
| Newark Computing Services | NCS |
| Newark Faculty of Arts and Science - Office of the Dean, IT | FASN |
| NJMS Technology Support Services | IT@NJMS |
| Office of Computing and Technology Support | OCT |
| Office of Disability Services | ODS |
| Office of Information Technology | OIT |
| Office of Information Technology – Camden Computing Services | OIT-CCS |
| Office of Instructional and Research Technology | OIRT |
| Office of Technology & Instructional Services (Rutgers Business School) | OTIS |
| Paul Robeson Library | PRL |
| Rutgers – Camden Learning Center | RCLC |
| Rutgers Camden Information Technology | RCIT |

| | |
|---|-----------|
| Rutgers Learning Centers | RLC |
| Rutgers School of Law, Computer Services | RSLN CS |
| Rutgers University Libraries | RUL |
| School of Arts and Sciences Information Technology Office | SAS-IT |
| School of Environmental and Biological Sciences - Academic Programs/Program in Science Learning | SEBS |
| School of Health Related Professions - Office of Technology and Facilities Management | SHRP-OTFM |
| School of Management and Labor Relations | SMLR |
| Technology and Learning Spaces | TLS |

ORGANIZATION SUBCOMMITTEE

Appendix D

Instructional Technology Units Level of Coverage (Campus and Rutgers-wide)

| | Camden | Newark | New Brunswick | Biomedical & Health Sciences |
|------------------|--|---|----------------------------|--|
| Rutgers-wide | <i>Center for Teaching Advancement & Assessment Research</i> Rutgers University Libraries <i>Office of Instructional and Research Technology</i> Office of Information Technology Office of Disability Services <i>Center for Online & Hybrid Learning and Instructional Technology</i> | | | |
| Cross-Campus | Division of Continuing Studies | | | |
| | | | | Rutgers Learning Centers |
| Campus/RBHS-wide | Instructional Design & Technology, Camden+ <i>OIT-Camden Computing Services</i> <i>Paul Robeson Library</i> Rutgers Camden Information Technology Rutgers – Camden Learning Center | Academic Technology Services <i>John Cotton Dana Library</i> <i>Newark Computing Services</i> Technology and Learning Spaces | Digital Classroom Services | Instructional Technology & eLearning Solutions |

italics = sub-department of a parent department that is also listed
+does not support Law School

ORGANIZATION SUBCOMMITTEE

Appendix E

Instructional Technology Units Level of Coverage
(School/Department Specific)

| | Camden | Newark | New Brunswick | Biomedical & Health Sciences |
|----------------------------|--|--|--|---|
| School/Department-Specific | | Office of Technology & Instructional Services (Rutgers Business School) | | |
| | | Office of Computing & Technology Support, School of Public Health* | | |
| | | Arts, Culture, Media | Bloustein School | Academic & Informational Technologies & Services, School of Nursing |
| | | Biological Sciences - Newark | Electrical & Computer Engineering | Academic Affairs Instructional Technology, RSDM |
| | | Center for Molecular & Behavioral Neuroscience | <i>Mathematics</i> | |
| | | Newark Faculty of Arts and Science | <i>Physics & Astronomy</i> | |
| | | Office of the Dean, IT | <i>Division of Life Sciences</i> | |
| | | Rutgers School of Law - Newark, Computer Services | Engineering Computer Services | NJMS Technology Support Services |
| | | | Graduate School of Applied and Professional Psychology | SHRP Office of Technology and Facilities Management |
| | | | GSE Office of Information Technology | |
| | Instructional Design and Technology (SCI) | | | |
| | <i>Laboratory for Computer Science Research</i> | | | |
| | Mason Gross | | | |
| | Mechanical & Aerospace Engineering | | | |
| | New Jersey Child Support Institute | | | |
| | SAS-IT | | | |
| | SEBS Academic Programs/Program in Science Learning | | | |
| | SMLR | | | |

* also supporting Stratford location

ORGANIZATION SUBCOMMITTEE

Appendix F Services Provided

| | Accessibility Support | Application Development | Assessment | Blackboard Support | Classroom A/V Support | Classroom Equipment Installation | Computer Hardware/Software Purchasing | Desktop Support | Digital Conversion | ePearson Support | Equipment Loan | Event Support | Instructional Computer Lab Support | Internet Support | Instructional Design | Laptop Support | Lecture Recording | Moodle Support | Network Support | Non-classroom A/V Support | Online/Hybrid Learning Tools | Pedagogic Training | Sakai Support | Software Creation | Tablet/Phone Support | Video Recording | Video/Web Conferencing | Web Development | Other |
|---------|-----------------------|-------------------------|------------|--------------------|-----------------------|----------------------------------|---------------------------------------|-----------------|--------------------|------------------|----------------|---------------|------------------------------------|------------------|----------------------|----------------|-------------------|----------------|-----------------|---------------------------|------------------------------|--------------------|---------------|-------------------|----------------------|-----------------|------------------------|-----------------|-------|
| ACM | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| AITS | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| ATS | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | | | | ✓ | | | | ✓ | ✓ | ✓ | ✓ |
| BIOS-N | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | ✓ | ✓ | | | | ✓ | | | | | ✓ | ✓ | ✓ | ✓ |
| BSP | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CMBN | | | | | ✓ | | | | | | | | ✓ | | | | | ✓ | | | ✓ | ✓ | | | | | | | |
| COHLIT | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CS-LN | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | | ✓ | ✓ | | | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| CTAAR | | | ✓ | | | | | | | | | | | | | | | | | | | ✓ | ✓ | | | | | | ✓ |
| DANA | | | ✓ | ✓ | | | | | ✓ | | ✓ | ✓ | ✓ | | ✓ | | ✓ | | | | ✓ | ✓ | | | | | ✓ | | ✓ |
| DCS | ✓ | | | | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| DoCS | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| DLS | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ECE | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | | ✓ | | | | ✓ | ✓ | | ✓ | | ✓ | | ✓ | ✓ | ✓ |
| ECS | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | | ✓ | | | | | ✓ | ✓ | | | | | | | ✓ | ✓ |
| FASN | | | | | | | | ✓ | | | | | | | | | | | | | | | | | | | | ✓ | |
| GSAPP | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | | ✓ | ✓ | | | | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| GSE-OIT | | ✓ | | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | | ✓ | | | | ✓ | ✓ | | | | | | ✓ | | |
| IDT | ✓ | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | | | | | ✓ | | | | | | | ✓ | ✓ | | | ✓ | | | ✓ |
| IDTS | ✓ | | ✓ | | ✓ | | ✓ | | | ✓ | | | | | ✓ | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| IT@NJMS | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| ITeS | ✓ | ✓ | ✓ | | | | ✓ | ✓ | ✓ | | | | | | ✓ | | ✓ | ✓ | | | ✓ | ✓ | | | | ✓ | ✓ | ✓ | |
| LCSR | | | | | ✓ | | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| M-NB | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| MAE | | | | | | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | |
| MG | | | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | | | ✓ | ✓ | | ✓ | | ✓ | | ✓ | ✓ | |
| NCS | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | | | | | | | | | ✓ | ✓ | ✓ | ✓ | |
| NJCSI | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| OCT | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| ODS | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OIRT | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | | | | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| OIT | ✓ | | | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | | | ✓ | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | |

| | Accessibility Support | Application Development | Assessment | Blackboard Support | Classroom A/V Support | Classroom Equipment Installation | Computer Hardware/Software Purchasing | Desktop Support | Digital Conversion | ePearson Support | Equipment Loan | Event Support | Instructional Computer Lab Support | Internet Support | Instructional Design | Laptop Support | Lecture Recording | Moodle Support | Network Support | Non-classroom A/V Support | Online/Hybrid Learning Tools | Pedagogic Training | Sakai Support | Software Creation | Tablet/Phone Support | Video Recording | Video/Web Conferencing | Web Development | Other |
|-----------|-----------------------|-------------------------|------------|--------------------|-----------------------|----------------------------------|---------------------------------------|-----------------|--------------------|------------------|----------------|---------------|------------------------------------|------------------|----------------------|----------------|-------------------|----------------|-----------------|---------------------------|------------------------------|--------------------|---------------|-------------------|----------------------|-----------------|------------------------|-----------------|-------|
| OIT-CCS | ✓ | | | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | | | | | ✓ | | | | | |
| OTIS | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | | | | ✓ | | ✓ | | | |
| PHY | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | | ✓ | | | ✓ | ✓ | | | ✓ |
| PRL | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| RCIT | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| RLC | ✓ | | ✓ | | | | | | | | | ✓ | | | | | | | | | | ✓ | | | ✓ | | | | |
| RCLC | | | | | | | | | | | | | | | | | | ✓ | | | | | | | | | | | |
| RSDM AA | | ✓ | | | ✓ | ✓ | ✓ | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | | | | ✓ | ✓ | ✓ | |
| RSLN CS | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | | ✓ | ✓ | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| RUL | ✓ | ✓ | | | ✓ | | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | | ✓ | | | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SAS-IT | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SEBS | | ✓ | ✓ | | ✓ | | ✓ | | | ✓ | ✓ | | | | ✓ | ✓ | ✓ | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| SHRP-OTFM | ✓ | | | | ✓ | | ✓ | ✓ | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SMLR | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| TLS | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | ✓ | | | ✓ | | | ✓ | ✓ | | | |

PEDAGOGY SUBCOMMITTEE

Appendix G

Faculty Survey Descriptive Statistics

1. With which campus and school are you primarily affiliated?

| Answer | Total Responses |
|---|-----------------|
| Rutgers University-New Brunswick ~ School of Arts & Sciences | 162 |
| Rutgers Biomedical and Health Sciences ~ School of Health Related Professions | 37 |
| Rutgers University-Camden ~ Rutgers School of Law - Camden | 12 |
| Rutgers Biomedical and Health Sciences ~ Robert Wood Johnson Medical School | 53 |
| Rutgers University-Camden ~ Camden College of Arts & Sciences | 44 |
| Rutgers University-New Brunswick ~ Rutgers Business School - Newark/New Brunswick | 13 |
| Rutgers Biomedical and Health Sciences ~ New Jersey Medical School | 39 |
| Rutgers University-New Brunswick ~ Graduate School of Education | 27 |
| Rutgers Biomedical and Health Sciences ~ School of Public Health | 12 |
| Rutgers University-Newark ~ Newark College of Arts and Sciences | 36 |
| Rutgers University-Newark ~ Rutgers Business School - Newark/New Brunswick | 15 |
| Rutgers University-New Brunswick ~ School of Communication & Info | 22 |
| Rutgers University-New Brunswick ~ Bloustein School of Planning | 12 |
| Rutgers University-Camden ~ School of Nursing - Camden | 7 |
| Rutgers University-New Brunswick ~ School of Environmental & Biological Sci | 40 |
| Rutgers University-New Brunswick ~ School of Engineering | 26 |
| Rutgers University-New Brunswick ~ Mason Gross School of the Arts | 10 |
| Rutgers University-New Brunswick ~ Continuous Education | 1 |
| Rutgers Biomedical and Health Sciences ~ Rutgers School of Dental Medicine | 16 |
| Rutgers University-Camden ~ The Graduate School-Camden | 3 |
| Rutgers University-Camden ~ Rutgers Business School - Camden | 12 |
| Rutgers Biomedical and Health Sciences ~ Ernest Mario School of Pharmacy | 5 |
| Rutgers University-New Brunswick ~ The Graduate School-New Brunswick | 10 |

| | |
|--|-----|
| Rutgers University-New Brunswick ~ Grad School of Applied & Prof Psych | 2 |
| Rutgers University-New Brunswick ~ School of Management & Labor Rel | 12 |
| Rutgers Biomedical and Health Sciences ~ School of Nursing - Rutgers University-New Brunswick & Rutgers University-Newark campus | 8 |
| Rutgers University-Newark ~ Rutgers School of Law - Newark | 2 |
| Rutgers University-New Brunswick ~ School of Social Work | 8 |
| Rutgers University-Newark ~ School of Public Affairs & Admin | 6 |
| Rutgers University-Newark ~ The Graduate School-Newark | 7 |
| Rutgers University-Newark ~ School of Social Work | 2 |
| Rutgers University-Newark ~ School of Criminal Justice | 4 |
| Rutgers University-Camden ~ School of Social Work | 1 |
| Rutgers Biomedical and Health Sciences ~ School of Biomedical Sciences | 2 |
| Rutgers University-Newark ~ Rutgers/NJIT Exchange | 1 |
| Total | 669 |

| Statistic | Campus | School or College |
|-----------------|---|------------------------------------|
| Most Common | Rutgers University-New Brunswick (51.57%) | School of Arts & Sciences (24.22%) |
| Total Responses | 669 | 669 |

2. How long have you been teaching in higher education?

| # | Answer | Response | % |
|---|-----------------------|----------|------|
| 1 | This is my first year | 22 | 3% |
| 2 | Less than five years | 113 | 17% |
| 3 | 6-10 years | 102 | 15% |
| 4 | More than 10 years | 432 | 65% |
| | Total | 669 | 100% |

| Statistic | Value |
|--------------------|-------|
| Min Value | 1 |
| Max Value | 4 |
| Mean | 3.41 |
| Variance | 0.78 |
| Standard Deviation | 0.88 |
| Total Responses | 669 |

3. How long have you been teaching at Rutgers University/UMDNJ?

| # | Answer | Response | % |
|---|---|----------|------|
| 1 | This is my first year teaching at Rutgers/UMDNJ | 46 | 7% |
| 2 | Less than 5 years | 172 | 26% |
| 3 | 6-10 years | 102 | 15% |
| 4 | More than 10 years | 349 | 52% |
| | Total | 669 | 100% |

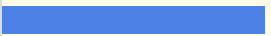


| Statistic | Value |
|--------------------|-------|
| Min Value | 1 |
| Max Value | 4 |
| Mean | 3.13 |
| Variance | 1.04 |
| Standard Deviation | 1.02 |
| Total Responses | 669 |

4. Which best describes your teaching role at Rutgers?

| # | Answer | Response | % |
|---|---------------------------------|----------|------|
| 1 | Full time faculty/administrator | 529 | 79% |
| 2 | Part time lecturer/adjunct | 140 | 21% |
| | Total | 669 | 100% |



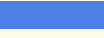


| Statistic | Value |
|--------------------|-------|
| Min Value | 1 |
| Max Value | 2 |
| Mean | 1.21 |
| Variance | 0.17 |
| Standard Deviation | 0.41 |
| Total Responses | 669 |

5. I teach (check all that apply)

| # | Answer | | Response | % |
|---|---------------------------|---|----------|-----|
| 1 | Undergraduate students |  | 482 | 72% |
| 2 | Graduate students |  | 496 | 74% |
| 3 | Non-matriculated students |  | 134 | 20% |

| Statistic | Value |
|-----------------|-------|
| Min Value | 1 |
| Max Value | 3 |
| Total Responses | 669 |

6. I teach (check all that apply)

| # | Answer | | Response | % |
|---|---|---|----------|-----|
| 1 | Arts & humanities |  | 126 | 19% |
| 2 | Social sciences |  | 136 | 20% |
| 3 | Science, technology, engineering, mathematics (STEM) |  | 204 | 30% |
| 4 | Health professions |  | 204 | 30% |
| 5 | Professional schools (e.g., law, business, professional psychology, social work, education) |  | 156 | 23% |



| Statistic | Value |
|-----------------|-------|
| Min Value | 1 |
| Max Value | 5 |
| Total Responses | 669 |

7. Indicate the extent to which you agree or disagree with the following statements describing different teaching philosophies

| # | Question | Strongly disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Total Responses | Mean |
|---|---|-------------------|----------|----------------------------|-------|----------------|-----------------|------|
| 1 | I see my role as a facilitator. I try to provide opportunities and resources for my students to discover or construct concepts for themselves. | 10 | 28 | 70 | 286 | 250 | 644 | 4.15 |
| 2 | I see my role as a subject expert where students learn best when I teach through explanation, show students how to do the work, and assign specific projects. | 5 | 28 | 75 | 293 | 243 | 644 | 4.15 |
| 3 | The most important part of instruction is that it encourages students to think deeply and make sense of material. | 5 | 2 | 30 | 199 | 408 | 644 | 4.56 |
| 4 | Students | 60 | 231 | 157 | 133 | 63 | 644 | 2.86 |

| | | | | | | | | |
|---|--|----|----|-----|-----|-----|-----|------|
| | can often learn basic skills in the context of mastering complex content— learning basic skills is not a prerequisite for mastering complex content. | | | | | | | |
| 5 | I see my role as providing an environment for my students where they can learn from one another through collaborative projects, class discussions, and other forms of interaction with others. | 10 | 30 | 108 | 279 | 217 | 644 | 4.03 |
| 6 | An important part of instruction is that it provides an environment where my students feel encouraged and comfortable to question me and challenge the material and ideas. | 6 | 4 | 26 | 221 | 387 | 644 | 4.52 |
| 7 | An important | 8 | 15 | 68 | 286 | 267 | 644 | 4.23 |

8. Do you use instructional technology (e.g., classroom response systems, Wikis, threaded discussion, online assessments, synchronous web conferences, interactive games) in your courses?

| # | Answer | | Response | % |
|---|--------|---|----------|------|
| 1 | Yes |  | 378 | 59% |
| 2 | No |  | 266 | 41% |
| | Total | | 644 | 100% |

| Statistic | Value |
|--------------------|-------|
| Min Value | 1 |
| Max Value | 2 |
| Mean | 1.41 |
| Variance | 0.24 |
| Standard Deviation | 0.49 |
| Total Responses | 644 |

9. The following questions pertain to the use of instructional technology in your courses:



| # | Question | Strongly disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Total Responses | Mean |
|---|---|-------------------|----------|----------------------------|-------|----------------|-----------------|------|
| 1 | I utilize technology in my courses to better convey information and present material. | 3 | 5 | 38 | 156 | 168 | 370 | 4.30 |
| 2 | I utilize technology in my courses to enhance classroom community. | 4 | 46 | 99 | 118 | 103 | 370 | 3.73 |
| 3 | I utilize technology in my courses to enhance student learning. | 1 | 6 | 30 | 148 | 185 | 370 | 4.38 |
| 4 | I utilize technology in my courses to engage students. | 2 | 15 | 53 | 129 | 171 | 370 | 4.22 |

| Statistic | I utilize technology in my courses to better convey information and present material. | I utilize technology in my courses to enhance classroom community. | I utilize technology in my courses to enhance student learning. | I utilize technology in my courses to engage students. |
|--------------------|---|--|---|--|
| Min Value | 1 | 1 | 1 | 1 |
| Max Value | 5 | 5 | 5 | 5 |
| Mean | 4.30 | 3.73 | 4.38 | 4.22 |
| Variance | 0.60 | 1.07 | 0.53 | 0.77 |
| Standard Deviation | 0.77 | 1.03 | 0.73 | 0.88 |
| Total Responses | 370 | 370 | 370 | 370 |

10. The following questions pertain to the use of instructional technology in your courses:

| # | Question | Strongly disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Total Responses | Mean |
|---|--|-------------------|----------|----------------------------|-------|----------------|-----------------|------|
| 1 | I utilize technology in my courses because I enjoy experimenting with new teaching methods. | 4 | 37 | 88 | 152 | 83 | 364 | 3.75 |
| 2 | I utilize technology because it helps me with course management and organization. | 2 | 17 | 57 | 160 | 128 | 364 | 4.09 |
| 3 | I utilize technology because it improves my standing within my department. | 77 | 113 | 126 | 36 | 12 | 364 | 2.43 |
| 4 | I utilize technology in my courses because I am encouraged by administrators (deans, chairs, directors, etc) to do so. | 64 | 110 | 122 | 54 | 14 | 364 | 2.57 |
| 5 | I utilize technology in my courses because students enjoy it and/or expect it. | 13 | 25 | 74 | 187 | 65 | 364 | 3.73 |
| 6 | I utilize | 62 | 99 | 142 | 53 | 8 | 364 | 2.58 |

11. Rutgers provides faculty with instructional design support. An instructional designer is an expert in incorporating technology and pedagogy to enhance classroom-based or online course design. Have you ever sought assistance from an instructional designer?

| # | Answer | | Response | % |
|---|--------|---|----------|------|
| 1 | Yes |  | 146 | 23% |
| 2 | No |  | 480 | 77% |
| | Total | | 626 | 100% |

| Statistic | Value |
|--------------------|-------|
| Min Value | 1 |
| Max Value | 2 |
| Mean | 1.77 |
| Variance | 0.18 |
| Standard Deviation | 0.42 |
| Total Responses | 626 |

12. I have used an instructional designer (check all that apply)

| # | Answer | | Response | % |
|----|---|--|----------|-----|
| 1 | For tech support | | 126 | 88% |
| 2 | To enhance the delivery of my content | | 91 | 63% |
| 3 | To improve aesthetics | | 26 | 18% |
| 4 | To assist with assessment development | | 35 | 24% |
| 5 | To increase active learning | | 57 | 40% |
| 6 | To improve my teaching | | 57 | 40% |
| 7 | To maximize student learning outcomes | | 51 | 35% |
| 8 | To ensure my course meets ADA accessibility requirements | | 21 | 15% |
| 9 | To design my course to the Quality Matters standards for online courses | | 23 | 16% |
| 10 | To ensure effective use of instructional and other technologies within my courses | | 81 | 56% |
| 11 | To fulfill accreditation requirements (e.g., adding learning/course goals) | | 12 | 8% |
| 12 | Because I received a request/requirement to seek out their services | | 11 | 8% |

| Statistic | Value |
|-----------------|-------|
| Min Value | 1 |
| Max Value | 12 |
| Total Responses | 144 |

13. Please indicate the extent to which you agree with the following statements regarding instructional technology in classroom-based instruction.

| # | Question | Strongly disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Total Responses | Mean |
|---|---|-------------------|----------|----------------------------|-------|----------------|-----------------|------|
| 1 | My department/institution rewards faculty for using instructional technology | 107 | 177 | 299 | 35 | 5 | 623 | 2.44 |
| 2 | My department/institution values faculty who use instructional technology | 64 | 71 | 294 | 163 | 31 | 623 | 3.04 |
| 3 | There should be incentives for faculty to use technology in classroom instruction | 42 | 98 | 246 | 165 | 72 | 623 | 3.20 |
| 4 | I am intimidated by instructional technology | 245 | 185 | 117 | 71 | 5 | 623 | 2.05 |
| 5 | I am aware of opportunities at Rutgers to receive training in using technology to enhance instruction | 45 | 131 | 123 | 261 | 63 | 623 | 3.27 |
| 6 | I have had many opportunities to see how instructional technology is being used | 81 | 199 | 160 | 154 | 29 | 623 | 2.76 |
| 7 | The time it takes for me to learn how to use instructional technology is better spent on other aspects of my work | 78 | 204 | 201 | 105 | 35 | 623 | 2.70 |

| Statistic | My department /institution rewards faculty for using instructional technology | My department /institution values faculty who use instructional technology | There should be incentives for faculty to use technology in classroom instruction | I am intimidated by instructional technology | I am aware of opportunities at Rutgers to receive training in using technology to enhance instruction | I have had many opportunities to see how instructional technology is being used | The time it takes for me to learn how to use instructional technology is better spent on other aspects of my work |
|--------------------|---|--|---|--|---|---|---|
| Min Value | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Max Value | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mean | 2.44 | 3.04 | 3.20 | 2.05 | 3.27 | 2.76 | 2.70 |
| Variance | 0.75 | 0.99 | 1.11 | 1.11 | 1.25 | 1.22 | 1.14 |
| Standard Deviation | 0.87 | 0.99 | 1.06 | 1.05 | 1.12 | 1.10 | 1.07 |
| Total Responses | 623 | 623 | 623 | 623 | 623 | 623 | 623 |

14. Please indicate the number of online courses you have taught (at any institution):

| # | Answer | Min Value | Max Value | Average Value | Standard Deviation |
|---|--|-----------|-----------|---------------|--------------------|
| 1 | Fully online (i.e., no more than three in person class meetings for the duration of the course) | 0.00 | 100.00 | 1.50 | 6.53 |
| 2 | Hybrid (i.e., at least 1/3 of classes conducted online, remainder taught in person for the duration of the course) | 0.00 | 50.00 | 0.84 | 3.72 |

15. Please indicate the extent to which you agree with the following statements regarding online/hybrid courses:

| # | Question | Strongly disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Total Responses | Mean |
|---|--|-------------------|----------|----------------------------|-------|----------------|-----------------|------|
| 1 | Online courses provide students with more flexible learning opportunities | 17 | 41 | 180 | 285 | 93 | 616 | 3.64 |
| 2 | Offering online courses is viewed favorably by my department | 43 | 106 | 290 | 143 | 34 | 616 | 3.03 |
| 3 | I am aware of opportunities at Rutgers to receive training in developing and delivering an online course | 44 | 147 | 121 | 246 | 58 | 616 | 3.21 |
| 4 | I have the skills needed to teach online courses | 40 | 121 | 159 | 204 | 92 | 616 | 3.30 |
| 5 | I am knowledgeable about developing instructional materials for online courses | 65 | 199 | 149 | 141 | 62 | 616 | 2.90 |
| 6 | The quality of teaching and learning in online courses can be at least as good as face-to-face classroom instruction | 104 | 172 | 156 | 119 | 65 | 616 | 2.79 |
| 7 | Faculty are recognized and/or | 89 | 148 | 325 | 49 | 5 | 616 | 2.57 |

| | | | | | | | | |
|----|--|----|-----|-----|-----|-----|-----|------|
| | rewarded for teaching online courses | | | | | | | |
| 8 | Teaching online courses takes more time than traditional face-to-face courses | 14 | 51 | 278 | 161 | 112 | 616 | 3.50 |
| 9 | The time it would take to develop an online course would be better spent on other aspects of my work | 48 | 117 | 243 | 139 | 69 | 616 | 3.10 |
| 10 | The advantages of online courses far outweigh the disadvantages | 96 | 149 | 255 | 69 | 47 | 616 | 2.71 |
| 11 | Teaching online courses is compatible with my teaching style | 92 | 142 | 190 | 145 | 47 | 616 | 2.86 |



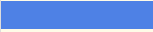

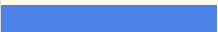


| Statistic | Online courses provide students with more flexible learning opportunities | Offering online courses is viewed favorably by my department | I am aware of opportunities at Rutgers to receive training in developing and delivering an online course | I have the skills needed to teach online courses | I am knowledgeable about developing instructional materials for online courses | The quality of teaching and learning in online courses can be at least as good as face-to-face classroom instruction |
|--------------------|---|---|--|---|--|--|
| Min Value | 1 | 1 | 1 | 1 | 1 | 1 |
| Max Value | 5 | 5 | 5 | 5 | 5 | 5 |
| Mean | 3.64 | 3.03 | 3.21 | 3.30 | 2.90 | 2.79 |
| Variance | 0.83 | 0.90 | 1.26 | 1.29 | 1.37 | 1.53 |
| Standard Deviation | 0.91 | 0.95 | 1.12 | 1.14 | 1.17 | 1.24 |
| Total Responses | 616 | 616 | 616 | 616 | 616 | 616 |
| Statistic | Faculty are recognized and/or rewarded for teaching online courses | Teaching online courses takes more time than traditional face-to-face courses | The time it would take to develop an online course would be better spent on other aspects of my work | The advantages of online courses far outweigh the disadvantages | Teaching online courses is compatible with my teaching style | |
| Min Value | 1 | 1 | 1 | 1 | 1 | |
| Max Value | 5 | 5 | 5 | 5 | 5 | |
| Mean | 2.57 | 3.50 | 3.10 | 2.71 | 2.86 | |
| Variance | 0.74 | 0.92 | 1.17 | 1.20 | 1.35 | |
| Standard Deviation | 0.86 | 0.96 | 1.08 | 1.10 | 1.16 | |
| Total Responses | 616 | 616 | 616 | 616 | 616 | |

16. How interested are you in learning how technologies can be used to enhance student learning?

| # | Answer | Response | % |
|---|-----------------------|----------|------|
| 1 | Not interested | 26 | 4% |
| 2 | A little interested | 90 | 15% |
| 3 | Moderately interested | 141 | 23% |
| 4 | Interested | 191 | 31% |
| 5 | Very interested | 165 | 27% |
| | Total | 613 | 100% |

| Statistic | Value |
|--------------------|-------|
| Min Value | 1 |
| Max Value | 5 |
| Mean | 3.62 |
| Variance | 1.32 |
| Standard Deviation | 1.15 |
| Total Responses | 613 |

17. Please select the professional development topics that would be of interest to you (check all that apply)

| # | Answer | | Response | % |
|---|---|---|----------|-----|
| 1 | Use of technologies (e.g., clickers, videos, Wikis, virtual worlds, social media) to enhance student learning |  | 408 | 67% |
| 2 | Selecting appropriate online teaching and learning methods |  | 343 | 56% |
| 3 | Selecting and designing methods for a flipped classroom |  | 256 | 42% |
| 4 | Adapting course material to an online or hybrid environment |  | 302 | 49% |
| 5 | Use of technology to assess student progress |  | 359 | 59% |
| 6 | How to effectively facilitate an online discussion |  | 307 | 50% |
| 7 | Other |  | 73 | 12% |

| Statistic | Value |
|-----------------|-------|
| Min Value | 1 |
| Max Value | 7 |
| Total Responses | 613 |

PEERS & ASPIRANTS SUBCOMMITTEE

Appendix H

CIC Course Sections Survey on LMS Usage

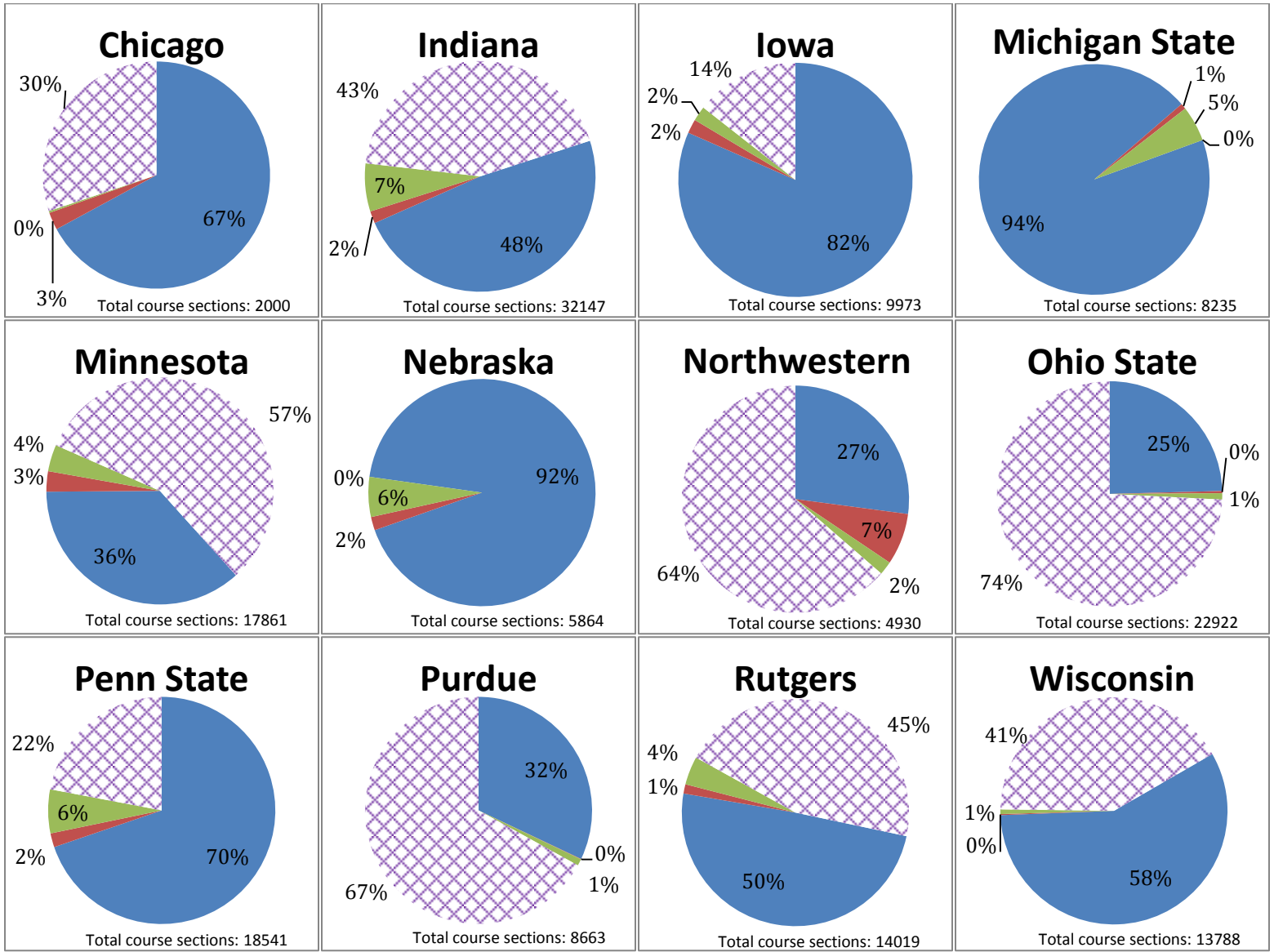


Course Sections Survey Results

February 2014

LMS Utilizing Course Sections Categorized by Type

The following graphs display the percentages of face to face (F2F), hybrid, and online course sections that utilize one or more Learning Management Systems (LMS) based on the total number of course sections taught at each university during Spring 2013. Note: Michigan State University's data is Spring 2014. Also, Indiana University's data is from Fall 2013.



■ F2F ■ Hybrid ■ Online ■ Non LMS



Course Sections Survey Results

February 2014

Course Sections Categorized by LMS

| University | LMS | Number of Courses | Percentage of Total Courses |
|---------------------------------|-------------------|-------------------|-----------------------------|
| University of Chicago | Blackboard | 1392 | 69.60% |
| | Piazza | 5 | 0.25% |
| | Non LMS | 603 | 30.15% |
| | Total | 2000 | |
| Indiana University | Angel | 168 | 0.52% |
| | Sakai | 18094 | 56.29% |
| | Non LMS | 13885 | 43.19% |
| | Total | 32147 | |
| University of Iowa | Desire2Learn | 8536 | 85.59% |
| | Non LMS | 1437 | 14.41% |
| | Total | 9973 | |
| University of Minnesota | Moodle | 7725 | 43.25% |
| | Non LMS | 10136 | 56.75% |
| | Total | 17861 | |
| Northwestern University | Blackboard | 1782 | 36.15% |
| | LoudCloud | 1 | 0.02% |
| | Moodle | 10 | 0.20% |
| | Non LMS | 3137 | 63.63% |
| | Total | 4930 | |
| Ohio State University | Desire2Learn | 5913 | 25.80% |
| | Non LMS | 17009 | 74.20% |
| | Total | 22922 | |
| Pennsylvania State University | Angel | 14458 | 77.98% |
| | Non LMS | 4083 | 22.02% |
| | Total | 18541 | |
| Purdue University | Blackboard | 2832 | 32.69% |
| | Chips/Lon-Capa | 31 | 0.36% |
| | Non LMS | 5800 | 66.95% |
| | Total | 8663 | |
| Rutgers University | Blackboard | 1415 | 10.09% |
| | Moodle | 932 | 6.65% |
| | Pearson e-College | 722 | 5.15% |
| | Sakai | 4600 | 32.81% |
| | Non LMS | 6350 | 45.30% |
| | Total | 14019 | |
| University of Wisconsin-Madison | Canvas | 7 | 0.05% |
| | Desire2Learn | 7014 | 50.87% |
| | Moodle | 1050 | 7.62% |
| | Non LMS | 5717 | 41.46% |
| | Total | 13788 | |

PEERS & ASPIRANTS SUBCOMMITTEE

Appendix I

CIC Instructional Technology Spreadsheet

| School | LMS | Lecture Capture | Web Conferencing | Wiki | Clickers | Digital Media | Video Conferencing | Office365 Y/N | Lynda.com Y/N | Content Mgmt. | MOOCs | e-Text | Fac. Evals. | Plagiarism Detection | Communications | Blogs | Other services/projects |
|----------------|--|--|--|--|--|--|---|---|------------------------------------|--|-------------------------------------|--|---|---------------------------|--|----------|---|
| Illinois | Blackboard (Central IT); Moodle (Major College); LON-CAPA (departmental) | Echo 360 | Blackboard Collaborate | Confluence | i>Clicker | Kaltura Ensemble | | | YES | Drupal | Coursera | e-Text @ Illinois | | SafeAssign via Blackboard | Wordpress | | |
| Indiana | Canvas | Echo 360 | Adobe Connect (and Zoom Experimentation) | Confluence | Turning Technologies | Pilot Kaltura And Ensemble | h.323 and Zoom evaluation | Yes, For students currently | Yes (Renewal Pending) | Cascade Server | Canvas/Google | Major Publishers and CourseLoad | eXplorance BLUE (Bloomington campus; IUPUI pilot) | Turnitin | Lync, Redbooth (small pilot), Yammer (evaluation), ListServ, LMS | | Evaluations and Pilots: VoiceThread, Piazza, Tableau, MSBI, Qualtrics, Avalon |
| Iowa | Desire2Learn | Panopto | Blackboard Collaborate Zoom | Confluence | Turning Technologies | ShareStream Flash Streaming iTunes YouTube | Polycom LifeSize | Yes, For students currently | Yes | Drupal | Drupal Homegrown for one dept. only | Pearson MacGraw-Hill MacMillan As Requested | CollegeNet | Turnitin | Lync | | |
| Maryland | Canvas | Panopto | Adobe Connect | Media Wiki/Confluence /Campus Pack | Turning Technologies | ShareStream (for video Reserves) Under RFP for campus resource | PolyComm, Cisco, | n | y | Drupal | Coursera | not specific | Just moved to eXplorance Blue | | Wordpress with Edublogs and Campus Pack | | |
| Michigan | Sakai; piloting Canvas via Unizin | MediaSite, Home Grown, Camtasia | Adobe Connect (in some units) | MediaWiki | iClickers | Kaltura | BlueJeans, Google | N, Google Apps | Negotiating | Drupal, Zoho | Coursera, NovoEd | None; accessibility concerns | Home grown, built on top of Sakai LMS | None | Yammer, Google Chat & Plus | | |
| Michigan State | ANGEL until 5/15/15; D2L, CourseWeaver | MediaSite in Med School; Echo 360 in Education & Vet Med | Adobe; Zoom | Google Sites | iClicker | Kaltura, Real Networks & Home Built | Polycom; Zoom | N | No; Using SkillPort | D2L, Drupal & Fedora | D2L, Moodle, Canvas | Nothing at this time | Home grown | Turnitin | Epigeum | | Epigeum |
| Minnesota | Moodle 2.6 for AY14 | Camtasia Relay | Adobe Connect (RFP for replacement is done and a decision is imminent, likely WebEx) | TWiki | iClicker/Turning Point (central IT only supports the Moodle plugins for these vendors) | Media Mill (homegrown conversion/sharing web app, being phased out), MediaHub (homegrown media conversion app), MediaEngine (homegrown media conversion platform), Kaltura (mostly in Moodle), YouTube, iTunes U | Tandberg/Cisco Video Endpoint | No | Yes | Drupal (replacing Oracle Content Management), Google Sites, ServiceNow | Coursera | VitalSource/CourseSmart McGraw Hill | eXplorance BLUE | Turnitin | | | |
| Nebraska | Blackboard | Camtasia Relay and currently piloting Echo 360 | Adobe Connect | Learning Objets | iClicker | iTunes U, Youtube, Heliz Media Server | Polycom | Yes | Yes | Drupal | Bb CourseSites | Pearson (minimal use) | Homegrown | SafeAssign | Lync, Yammer | | Bb Analytics, Digital Measures' Activity Insight (Faculty Data) |
| Northwestern | Blackboard, moving to Canvas | Mediasite | Adobe Connect (sort of) | Campuspress (was EduBlogs) for Blogging. | Turning Technologies | Mediasite Flash Streaming Avalon | Polycom Tandberg/Cisco LifeSize, USB-based for Vidyo, Lync | Yes, pending legal review, not rolled out yet | Yes | Cascade, Drupal | Coursera | none | ? | | | | |
| Ohio State | D2L | MediaSite | Adobe Connect | Confluence | Piloting Top Hat | YouTube, iTunes, | Cisco Tandberg videoconferencing codecs that utilize h.323 for point to point connections and a Jamvee contract negotiated through Internet 2 for bridging multiple sites, also some FaceTime, Adobe Connect and Lync | Yes | Yes (individual, not site license) | Drupal | Coursera | campus digital publishing program (digitalpublishing.osu.edu): primarily iBooks, some ePub | Student interface to faculty evals available through PeopleSoft Student Center, and also OSU Mobile App | Turnitin | Lync, Yammer, other | Edublogs | cross institutional effort includes Office of Distance Ed and eLearning, University Center for Advancement of Teaching, Libraries, Colleges |
| Penn State | Angel (evaluating new options) | None | Adobe Connect | Confluence | iClicker | iTunes U, evaluating MediaCore | Polycom | Yes (not rolled out yet) | Yes | Drupal (ELMS extension), Evolution (homegrown), WordPress | Coursera | | | Turnitin | Yammer, Wordpress | | |

| School | LMS | Lecture Capture | Web Conferencing | Wiki | Clickers | Digital Media | Video Conferencing | Office365 Y/N | Lynda.com Y/N | Content Mgmt. | MOOCs | e-Text | Fac. Evals. | Plagiarism Detection | Communications | Blogs | Other services/projects |
|-----------|--|--|---|------------|--|---|-------------------------------------|-------------------------|-----------------------------------|---|---------------------------------------|---|------------------------------------|------------------------------------|----------------|---------------|--|
| Purdue | Blackboard Learn (Piloting Canvas) | Echo 360 | WebEx (just ending Adobe Connect license) | Confluence | iClicker | Kaltura (working on iTunesU), Camtasio Studio, Snagit - also have greenscreen rooms around campus now | polycom | n | for faculty & staff, not students | Cascade | Purdue Next, Hubs (looking at Canvas) | SkyePack | Qualtrics | SafeAssign (looking into Turnitin) | Lync | WordPress, Bb | IMPACT cross-inst program, Informatics tools, Lon Capa, Course Signals, CourseEmail Lists, Respondus, CourseEmail Lockdown Browser, piloting Respondus Monitor |
| Rutgers | Sakai, Moodle, Blackboard, Pearson eCollege, various book publishers | Panopto, NJVid (NJ higher ed consortium) and Crestron, Camtasia Relay, home grown products | Adobe Connect, GoToMeeting, Eluminate, WebX, Google Hangout, Lync | Confluence | iClicker, Turning Technologies, smart phones | iTunes U, YouTube, Kaltura | Polycorn, Tandberg, Lifesize, Vidyo | In Business School only | In one school | Wordpress, Zoomla, Drupal, Contribute, Moodle | Coursera | | Evalsys in Sakai | Turnitin | | WordPress | Online course creation, hybrid course creation, ePortfolios, web accessibility, course material accessibility, training in Camtasia, clickers and any other tech faculty are interested in |
| Wisconsin | Central: Desire2Learn Campus: Moodle | Central: Podcast Producer Engineering: Mediasite | Blackboard Collaborate Adobe Connect Google Hangouts | Confluence | Central: iClicker Campus: tophat monicle | Kaltura iTunes U YouTube | Cisco Telepresence | Yes, later this year | Yes | No central application | Coursera | All major publishers; not managed by our unit | No online tool centrally supported | | Yammer | | Mobile Learning Incubator Learning Analytics Electronic Lab Notebooks Evaluation services Online course creation services (some by students) Educational Innovation Research data/data curation Blended Learning, fac dev programs |