

CEHS Technology Committee Strategic Plan 2015-17

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Mission Statement

Knowledge is the business of a university—creating it, studying it, analyzing it, and disseminating it—and the storage, transfer, and construction of knowledge as information relies increasingly on digital technology. Technology promotes and supports the excellence and innovation of faculty members, students, and staff in the College, stimulating their creativity, productivity, and efficiency. In order to support and advance the work of faculty members, students, and staff, it is important that the technology equipment, systems, and processes be robust, accessible, secure, and timely. The mission of the College is to address these needs for the benefit of all of its constituents. This is best done through the development and implementation of an efficient, comprehensive, and equitable technology plan.

Values

The following values have influenced the technology plan.

1. Technology is an important and compelling contributor to excellence and innovation in the work of faculty, staff and students.
2. The study of how and where technology impacts education and human sciences contributes important new knowledge.
3. Individual and diverse applications of technology are important to advancing ideas.
4. Technology enhances the productivity and efficiency of faculty, staff, and students.
5. Technology extends the reach and impact of the College.
6. Program graduates should possess knowledge, skills, and attitudes that allow them to apply technology to meet professional goals.
7. Technology has become the medium and repository for much of faculty, staff, and student work. The access to and the security of these resources is essential.
8. Excellence in the area of technology means continuous learning and application of new technologies.
9. The adoption of technology represents a challenge and an effort on the part of the College and on individual faculty and staff. This effort moves both the College and individuals forward and has a substantial payoff in productivity, quality and impact and as such should be recognized as an important contribution critical to the mission of the College.
10. *Systems and processes that make the use of technology more creative, reliable, efficient and effective support these values.*

General Technology Goals

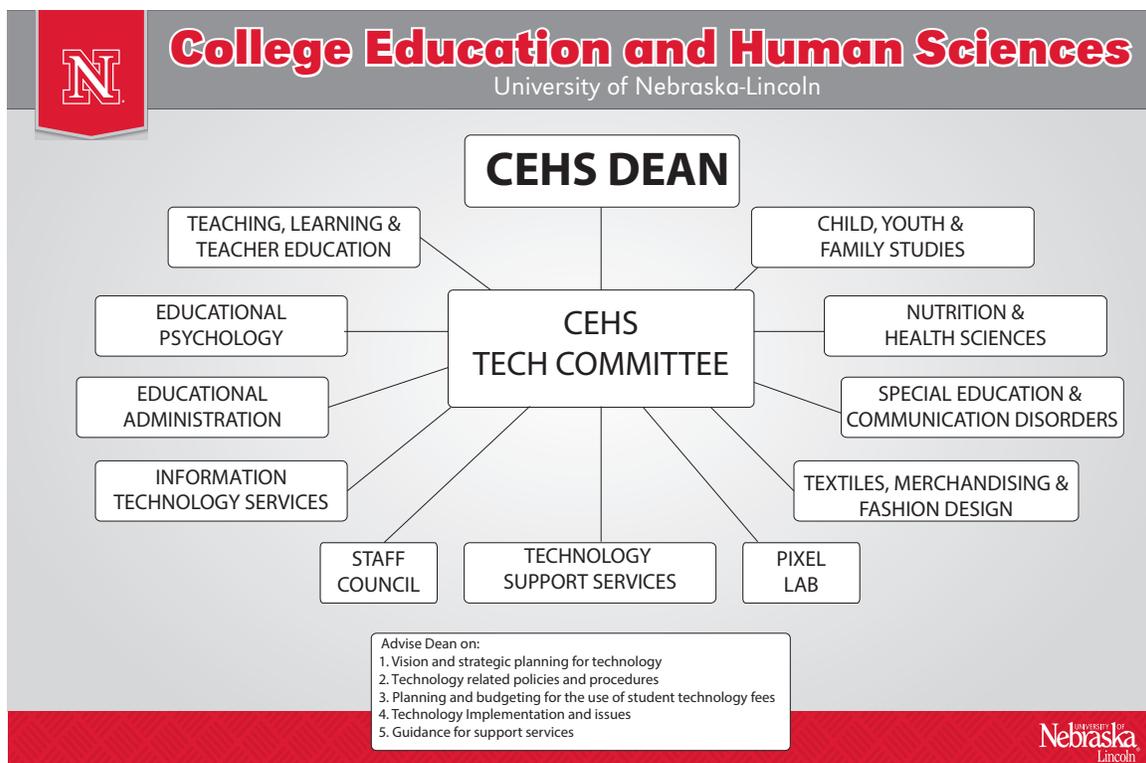
1. Provide a climate where technology is recognized and valued including support for CEHS faculty, staff and students to develop expertise and leadership roles in educational technology.
2. Provide high quality teaching and learning opportunities for distance education, on-campus students and life-long learners through a technology-rich environment.

3. Provide all faculty and staff with modern software and equipment tailored to meet their specific interests and responsibilities, including support for research, teaching, and service.
4. Provide reliable and secure access to data and networks and protection of data from damage, attack or loss for all CEHS faculty, staff and students.
5. Provide the necessary support to faculty, staff, and students in the College to maintain their software and computer hardware.
6. Provide technology support to CEHS faculty and staff who are interested in software development.
7. Provide access to graphic design services and technology to enhance productivity and innovation for teaching, research, and outreach for all CEHS faculty, staff and students.
8. *Provide adequate financial and human resources to allow consistent and systematic development of technology in the College.*

Organization and Purpose of the Committee

Members of the Committee represent academic departments, the staff council, Pixel Lab, and Technology Support Services. The Committee also includes a representative of UNL Information Technology Services. The Committee is chaired by Al Steckelberg who serves as the Technology Director for the College.

The committee advises the Dean on vision and strategic planning, technology related policies and procedures, planning and budgeting for the use of student technology fees, technology implementation and issues and provides guidance for CEHS Technology Support Services. The role of the committee is to both listen and gather input from the College and to present new ideas and recommendations.



Part I – Progress Toward Specific Goals for 2014-15

Establish CEHS as a leader in providing innovative approaches to enhancing knowledge and delivering instruction locally and globally.

- A. Maintain a high quality technology infrastructure that supports the work of faculty and staff. Support for infrastructure is basic and foundational to other efforts. The most fundamental priority is access to quality technology.
1. Assessment and Evaluation
 - a. Developed and completed UNL Operations Analysis security action plan for the College.
 - b. Responded to External Review recommendations regarding communication, personnel efficiencies, responsiveness and data collection. Procedures related to purchasing of new equipment and reporting of student tech fee expenditure have been initiated with Business Services.⁸⁸
 2. Security
 - a. Installation of Identity Finder as a tool for locating social security numbers and other personal identifiable information.
 - b. Installation of desktop management software.
 - c. Partnership with ITS in scanning for vulnerabilities
 3. Hardware
 - a. Completed annual upgrade or purchase of 88 new computers for faculty and staff.
 - b. Updated TEAC 113, 138, 204, 249 to 80" displays with mac minis (dual platform)
 - c. Upgraded equipment in HECO 137 computer lab
 - d. Provided funds for upgrade of LEV 304
 - e. Upgraded projectors in LEV 115 and 204
 - f. Provided funds for upgrade of Barkley 127
 - g. Provided funds for upgrade of Barkley 314
 - h. Installed 80" display in MABL 120 computer lab
 - i. Provided funds for upgrades in HENZ classrooms ((Rooms 32, 33, 37, 45, 205, & 207)
 3. Technical Support
 - a. Provided ongoing technical support to faculty and staff
 - b. Provided technical support for 43 classrooms and seminar rooms
 - c. Provided technical support for different video observation systems in 3 clinics (EDPS, CYAF, SECD)
 - d. Provided technical support for Hillestead Gallery and IQSC
 - e. Worked with ITS and Pixel Lab on planning and implementation of the Hub area
 - f. Provided and supported 24 College servers for file and web services.
 - g. Provided technical support for Buros including managed file servers.
 - h. Provided technical or equipment support for College sponsored conferences including Tech Edge, CEHS Student Research Conference, Ali Moeller's summer institutes, Women's Leadership Conference.

4. Development

- a. Provided web and application development supporting research, instruction, and outreach. Projects included conference registration, college and department web site conversion to UNL CMS, and practicum evaluation for Elementary Education.
 - b. Developed a File Maker Pro interface to ETS Praxis test results
 - c. Developed a criminal background database
 - d. Developed a POS for Pixel Lab
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B. Support innovation in teaching.

1. Solicited and made one award for Technology Innovation Projects. Project included:
 - a. Development of Web Application for Supported Test Item Development (Albano)
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C. Identify and implement strategies to facilitate and enhance the international efforts of the College

1. Provided multiple distance presentations with teachers and parents in China. (Trainin)
 2. Produced video about technology integrations for Chinese audience. (Trainin)
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D. Support innovative approaches to inquiry and creative work.

1. Purchased or obtained software licenses for labs, classrooms, and faculty/staff machines: SPSS (184 licenses), SAS (37 licenses), HLM (1 license), Qualtrics (college-wide license), Lectra (lab license), Mplus (14 licenses), NVIVO (28 licenses) and MaxQDA (4 licenses). Dartfish (lab license), Creative Cloud (39 licenses)

Part II – Contributions to CEHS Spires of Excellence

Technology is so integral to the work that we do that it contributes to excellence in almost all areas. The following provide selected examples under CEHS Spires of Excellence

A. International Education

1. Technology has allowed students to remain connected with faculty, peers and their families while participating in international study opportunities.
 2. Video and conferencing technology has and is being used to include international students in courses and research.
 3. Presentations and resources on technology integration for Chinese audiences including parents and teachers.
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B. 21st Century Teaching and Learning

1. CEHS is a leader on campus in providing online and distance programs. We are developing greater capacity to deliver distance and hybrid courses via video conferencing.
 2. Student tech fees are used to support instructional technology in CEHS classrooms and conference rooms.
 3. Student tech fees are used to provide student access to software and specialized equipment that is integral to instructional programs. This includes five classrooms/labs used for teaching technology centric courses. It also included laptops, cameras, iPads, and microphones for student and instructor use. Software includes statistical packages, productivity and multimedia software, educational iPad applications, Lectra and other specialized software.
 4. Under the leadership of Guy Trainin, the College has initiated the Technology Edge Conference and a summer workshop course on technology integration for teachers.
 5. CEHS has participated in a pilot project using Apple TV in Henzlik 45. The pilot allowed faculty to explore new ways to utilize tablets in the classroom. Following the successful pilot we are installing Apple TVs in additional classrooms and conference rooms.
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C. Innovative Approaches to Inquiry and Creative Work

1. The College has provided support for research tools such as Qualtrics, SPSS, and SAS. Qualtrics, in particular, has been a critical resource across the College. We have 311 user accounts that have generated 1657 surveys with 150,000 responses since February 2012. Six hundred and eleven new surveys were created since January 2014 with 58,000 responses.
2. Technology plays key roles in gathering and analyzing data, support collaboration on research, and provides important mediums for communicating findings to colleagues and constituents.

Part III – Strategies for Meeting Goals 2015-16

Establish CEHS as a leader in providing innovative approaches to enhancing knowledge and delivering instruction locally and globally.

- A. Maintain a high quality technology infrastructure that supports the work of faculty and staff. Support for infrastructure is basic and foundational to other efforts. The most fundamental priority is access to quality technology.
1. Enhance security practices with the College.
 - a. Continue follow-up of the 2014 Security Action Plan and address issues related to security.
 - b. Support security best practices including two-factor authentication.
 2. Provide specific software support for faculty and staff with focus on providing assistance with immediate problems.
 3. Support the use of Box as a method for faculty/staff data storage.
 4. Minimize support and security issues by moving to virtual servers.
 5. Implement client management tools (SCCM and Casper) to facilitate faculty and staff support.
 6. Review progress toward strategies identified in response to the External Review in the areas of communications, responsiveness, personnel efficiencies and gathering of data for decision making.
 7. Create a development plan for student technology support personnel.
 8. Investigate ways to support collaborative planning and support for clinics within the College. For example, bring representatives together to discuss common technology needs.
 9. Provide faculty and staff with regular computer upgrades and maintenance
 10. Provide current technology in classrooms, seminar rooms and conference rooms.
 11. In conjunction with Brad Stauffer, explore ways to foster technologically literate faculty, including the effective use of communication and social media.
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- B. Support innovation in teaching.
1. Provide instruction and support to faculty in improving the production value of online and teaching materials including professional presentation and production (Pixel Lab).
 2. Develop strategies for using graduate assistants to provide specific software support,
 3. Re-examine how student tech support funded by student tech fees is used to support teaching
 4. Explore and create new opportunities to students bringing their own technology including access to software licenses and effective learning/working spaces.
 5. Encourage, support and showcase innovative projects by faculty and staff.
 6. Identify and provide resources for supporting faculty and staff use of technology. As part of this effort address issues in dealing with and supporting the faculty and staff who are least proficient with technology.

7. Continue enhancing video conferencing capability to support distance and hybrid teaching and advising. Provide support/resources that allows faculty to effectively use the technology.
 8. Identify ways to provide and support innovative learning spaces.
 9. Support the development of Web, iPad/iPhone, and/or other applications that are used to manage and enhance teaching.
 10. Support the development of technology that enables or enhances assessment of program outcomes.
 11. Explore strategies for systematic evaluation of the impact of College technology initiatives.
 12. Explore and promote ways to effectively utilize newly remodeled student areas in the Henzlik gym.
 13. Contribute to the discussion and creation of a CEHS Technology Innovation Studio.
 14. Support the application of professional technologies in instructional programs providing students with experiences with technology that they will encounter in job settings.
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C. Support innovative approaches to inquiry and creative work.

1. Identify and provide technology tools that support inquiry and creative work. Examples include software such as Qualtrics, SPSS and SAS.
 2. Provide web and application development in support of research.
 3. Explore the emerging field of ARC/GPS in research and instruction.
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D. Identify and implement strategies to facilitate and enhance the international efforts of the College.

1. Investigate new and innovative technology that has potential to support and expand international efforts.
 2. Explore options and support secure use of technology during international travel.
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E. Create long term vision for technology in CEHS

1. Engage departments, faculty, students, and other stakeholders in discussion of long-term vision for technology.
 2. Identify areas where CEHS can play a leadership role both within the University and externally.
 3. Collaborate with other colleges and ITS in developing and supporting the vision.
 4. Examine on-campus, distance and blended instruction needs.
 5. Examine accessibility issues.
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F. Articulate and Disseminate the Mission and Functions of the CEHS Tech Committee within CEHS

1. Share information on the composition, mission and role of the committee.
2. Share Strategic Plan with CEHS Departments.
3. Share information on funding sources and budgeting process.

4. Increase awareness of important technology issues and information across the College.
5. Explore how centers and non-instructional staff fit into the scope of the Tech Committee.

Part IV – Contributions to Chancellors Goals

Creating engaging and effective instruction supports both attracting and retaining students in our programs. We expect that technology and media will play a significant role in this effort.

1. Increased capacity for alternative course delivery and advising via distance technology.
2. Delivery of College's message to potential and current students via web pages, digital signs.
3. Use of distance and digital technology to recruit students.
4. Development of a culture/climate that makes learning and working inviting for students. Technology helps contribute to the image of the College.
5. A key element is the production quality of the instructional materials and resources we use interact with students and potential students. It is critical that we support faculty in developing this capacity.
6. Support of innovation and initiatives in the College and Departments