Annual Report

2014 SJSU Faculty Survey Summary on Instructional Technology

Prepared by:
San José State University Information Technology Services and Academic Technology Departments
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Executive Summary

Thank you to all faculty who already responded to the online Instructional Technology Survey conducted last Spring 2014 through Qualtrics. Based on responses received on the survey sponsored by the Office of the Provost and IT Services, work began immediately, Summer 2014 to address campus infrastructure and classroom needs to make sure the instructors’ teaching needs in the classrooms, labs, and online were met.

Some changes are already instituted in Fall 2014. For changes that are not completed, please know that changes and improvements will continuously be made as we move forward.

The 2014 Faculty Survey on Instructional Technology was sent to all SJSU faculty in late spring semester. The objectives of the SJSU instructional technology survey were:

1. To provide information to help better support the technology needs and priorities of faculty in the context of teaching and learning.
2. To determine what technology functions faculty need for instruction (either face-to-face in classrooms or virtually online) so these could be built into the teaching spaces to enhance the teaching and learning environment.

On the following pages a summary of the results are provided. Additionally, the status and plans regarding instructional technology changes and improvements have been provided.
Faculty Demographics

Faculty members (n = 289) that participated in the survey provided demographic information, which included the current position and college. Faculty positions were divided into three categories: instructor/lecturer, tenure track faculty, and tenured faculty.

Faculty Positions

<table>
<thead>
<tr>
<th>Response</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructor/Lecturer</td>
<td>42%</td>
</tr>
<tr>
<td>Tenure track (TT) faculty</td>
<td>11%</td>
</tr>
<tr>
<td>Tenured faculty</td>
<td>47%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>
2014 SJSU Faculty Survey Summary on Instructional Technology

San José State University Colleges

<table>
<thead>
<tr>
<th>Response</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Applied Sciences and Arts</td>
<td>16%</td>
</tr>
<tr>
<td>College of Business</td>
<td>9%</td>
</tr>
<tr>
<td>Connie L. Lurie College of Education</td>
<td>10%</td>
</tr>
<tr>
<td>Charles. W. Davidson College of Engineering</td>
<td>10%</td>
</tr>
<tr>
<td>College of Humanities and Arts</td>
<td>23%</td>
</tr>
<tr>
<td>College of International and Extended Studies</td>
<td>0%</td>
</tr>
<tr>
<td>College of Science</td>
<td>16%</td>
</tr>
<tr>
<td>College of Social Sciences</td>
<td>19%</td>
</tr>
<tr>
<td>Total:</td>
<td>100%</td>
</tr>
</tbody>
</table>

**Percentage of Responses by College**

![Percentage of Responses by College](image_url)
Technology Usage

Face-to-Face Teaching
The survey asked faculty members to indicate the most important classroom technologies for face-to-face teaching. Faculty respondents indicated the technologies that were the most important when teaching on campus.

Top 5 Most Important Classroom Technologies for Face-to-face Teaching:
1. Projector / Projection
2. Wireless internet access (Wi-Fi)
3. Ability to request immediate technical assistance
4. Sound System (good quality audio)
5. Classrooms or labs in which each student has a computer

Technology Requests for Classrooms
The survey asked faculty members to indicated their technology requests for classrooms.

Top 5 Technology Requests for Classroom
1. Good/Fast/Consistent Wi-Fi and Network Access
2. Projections capability
3. Availability of PC or console connections in classroom
4. Good quality audio system (mic and speaker)
5. Smart board/document camera

Technologies Used for Teaching
The survey asked faculty members to indicate the technologies used in their teaching.

Top 5 Technologies Used:
1. Email
2. Smart phone
3. Tablet or eReader
4. Canvas
5. Online file storage (e.g., Dropbox, Google Drive, Sky Drive)
Technology Adoption: Comfort Levels and Mobile Devices
The survey asked faculty members to indicate their level of comfort as it relates to using technology for teaching activities. Respondents also noted the current mobile technologies that are owned.

Comfort Level with Adopting Technology for Teaching:
(Average: 4.15 out of 5)

Top 5 Mobile Devices Owned by Faculty:
1. iPad or iPad mini (68%)
2. iPhone (59%)
3. Kindle (28%)
4. Android Phone (23%)
5. Android Tablet (9%)

Percentage of Faculty Allowing Mobile Devices in Class:

<table>
<thead>
<tr>
<th>Response</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>49%</td>
</tr>
<tr>
<td>No</td>
<td>29%</td>
</tr>
<tr>
<td>Did not inform students whether they can use mobile devices or not</td>
<td>22%</td>
</tr>
</tbody>
</table>
Technology Requests

The survey asked faculty members to reflect and describe the different technologies they would like to use or learn more about.

Top 5 Technologies / Abilities Faculty Would Like to Use in the Classroom

The survey asked faculty to indicate the technologies they would like to use in the classroom. Respondents also noted the abilities they would like to have regarding the use of these technologies.

1. Ability to download recorded lecture captures and edit these
2. Ability for students and teachers to share their presentations through a central classroom display monitor.
3. (Tie)
   - Ability to provide students with engaging online component while in the classroom.
   - Ability to let students interact/collaborate with each other using an online platform (e.g., WebEx)
4. Bring in outside experts virtually through Telepresence
5. Ability to do lecture capture

Top 5 Technology Topics Faculty Are Interested in Learning About

The survey asked faculty to indicate the technology topics they were interested in receiving training in and learning more about.

1. Lecture capture
2. Integration of mobile devices into teaching
3. Effective online teaching
4. Canvas
5. Data Visualization
Top 10 Most Important Instructional Technology Issues

The survey asked faculty to indicate the most important instructional technology issues that need to be addressed.

1. Technical support for classrooms
2. Better wireless connectivity
3. Available staff to come to a classroom in case of an issue
4. Faculty development opportunities for effectively integrating technology for classroom use
5. More power plugs/ports for student machines
6. Provide tutorials (text-based/video) on how to use classroom technology.
7. Technology and support for producing audio and video for classroom use
8. Providing incentives to promote the use of instructional technology in teaching (e.g., release time, compensation, tenure points)
9. Instructional design assistance
10. Provide Technology Assistants (students) to help with technology in the classroom.
# Survey Results: Status and Plans

Based upon the results, plans have been created to indicate how to meet the technology needs of San José State University faculty and students.

<table>
<thead>
<tr>
<th>Survey Results Indicate</th>
<th>Status and Plans</th>
</tr>
</thead>
<tbody>
<tr>
<td>The use of mobile devices in the classroom (teaching and learning) has increased dramatically for both faculty and students alike. This resulted in an increased demand for reliable wireless and also to more instances of insufficient connectivity.</td>
<td>Secure wireless service has been expanded to serve all students, faculty, staff and guests. Today, SJSU Wi-Fi is reliable and available in all classrooms, campus buildings, campus residences and available to guests for future students, family members, and other guests! The number of concurrent Wi-Fi connections during the day is now more than 11,000 devices, which is more than double of what was possible two years ago. Google Form request for specific classroom issues/concerns will help pinpoint technology use problems so they can be addressed as quickly as possible.</td>
</tr>
<tr>
<td>The need for technically capable, flexible classrooms and labs are as important as ever.</td>
<td>First step: Collected faculty input via Spring survey, 2014 and faculty focus group, Spring, 2014. Next step: Drill down for more information to determine short term and long term solutions for the rooms that are considered “terrible teaching spaces”.</td>
</tr>
<tr>
<td>The variety of mobile devices owned by faculty results in requests to “mirror” displays on these devices on classroom projection systems.</td>
<td>Need to explore best solutions for displaying images/presentations from different devices on classroom projection systems. Status: Classroom master plan in progress.</td>
</tr>
</tbody>
</table>
| Interest and familiarity with web and video conferencing are increasing professionally and in the classroom. | SJSU has WebEx Web Conferencing licenses for faculty, staff, and students to connect with people at SJSU and outside of SJSU.  
SJSU WebEx Information: [http://its.sjsu.edu/services/webex/](http://its.sjsu.edu/services/webex/)  
Workshops: [http://www.sjsu.edu/at/ec/webex/index.html](http://www.sjsu.edu/at/ec/webex/index.html) |
## Survey Results Indicate

<table>
<thead>
<tr>
<th>Faculty members indicated interest in learning about classroom technologies and how to integrate these in teaching.</th>
</tr>
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<tbody>
<tr>
<td>Faculty and staff development and training opportunities on different instructional technology tools are provided at: <a href="http://www.sjsu.edu/at/ec/aboutus/ecampusevents/index.html">http://www.sjsu.edu/at/ec/aboutus/ecampusevents/index.html</a></td>
</tr>
<tr>
<td>Provide production assistance for creating lecture capture. <a href="http://its.sjsu.edu/services/video-collaboration/">http://its.sjsu.edu/services/video-collaboration/</a></td>
</tr>
<tr>
<td>Current university initiatives to address the integration of technology in teaching include the introduction of Next Generation “Next Gen” Technologies in classrooms. Emerging technologies include: digital signage, lecture capture/sharing, Next Gen learning spaces, secure user authentication, TelePresence, unified communications, virtualized desktop infrastructure and web/video/tele collaboration. For more information: <a href="http://its.sjsu.edu/docs/business-ops/Innovation-Ready-Poster.pdf">http://its.sjsu.edu/docs/business-ops/Innovation-Ready-Poster.pdf</a></td>
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## Status and Plans

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<tr>
<td>Provide production assistance for creating lecture capture. <a href="http://its.sjsu.edu/services/video-collaboration/">http://its.sjsu.edu/services/video-collaboration/</a></td>
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## Technology support is a very important concern for faculty.

<table>
<thead>
<tr>
<th>Support it available through the IT helpdesk and AT Departments (classroom support, educational technology support)</th>
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<tbody>
<tr>
<td>After-hours IT help-desk service begins September 15, 2015</td>
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## Next steps:

1) Evaluations for posting simple instructional “how-to’s” in classrooms to help faculty use technology when teaching.

2) Short video and text tutorials on the use of technology in the classroom available at: [http://www.sjsu.edu/at/ec/](http://www.sjsu.edu/at/ec/)
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<th>Survey Results Indicate</th>
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<tbody>
<tr>
<td>Faculty mentioned that technology sometimes distracts from learning and the development</td>
<td>Faculty development opportunities and training should be available to increase awareness of the technology options and how these may be effectively used to augment “non-technology” teaching strategies.</td>
</tr>
<tr>
<td>of skills in traditional reading, writing, and critical analysis is preferable to overuse</td>
<td></td>
</tr>
<tr>
<td>of technology.</td>
<td></td>
</tr>
<tr>
<td>Technical skills of students vary widely.</td>
<td>Continue to provide students with support for the increasing amount of technological skills required for classes.</td>
</tr>
<tr>
<td></td>
<td>External sources such as Khan Academy, YouTube Education Channel, Adobe, Canvas, and WebEx tutorial websites, etc. can be used as resources for students.</td>
</tr>
<tr>
<td></td>
<td>Next steps: 1) Evaluations for creating short workshops (in person and online) to provide resources in the use of technology in learning.</td>
</tr>
</tbody>
</table>

Current projects are underway to address the technologies at San José State University. For additional information and updates on these projects, visit the Information Technology Services and Academic Technology Websites.

**Information Technology Services Website**

http://its.sjsu.edu/

**Academic Technology Website**

http://www.sjsu.edu/at/