Future of Canvas at the University of Iowa
January 2016

Overview and Recommendation
Canvas is a learning management system (LMS) and is a competitor to Desire2Learn (D2L) which is the current LMS that supports the base functions of ICON (Iowa Courses Online) at the University of Iowa. The ITS Office of Teaching, Learning & Technology (OTLT) is leading a series of pilots of the Canvas LMS due to the University’s membership in Unizin. (http://teach.its.uiowa.edu/initiatives/unizin) So far, the outcomes of the Canvas pilots have been very successful, which now leads us to further discussion regarding which LMS should be used in the future in ICON.

Unizin is a “consortium of like-minded institutions facilitating the transition toward collaborative digital education” whose mission is to “improve the learning experience by providing an environment built on collaboration, data, standards, and scale.” (http://unizin.org) The University of Iowa became a member of Unizin in December 2014 and, as of December 2015, Unizin membership includes eleven founding institutions and eleven subscribing institutions. (Appendix A).

The new Unizin learning environment will include numerous instructional technology tools supporting a full range of online instructional activities. The first layer of this environment is the Canvas LMS. In order for the University of Iowa to fully leverage the future vision of Unizin, we will need to migrate our ICON infrastructure to the Canvas LMS. Canvas is a platform very similar to D2L, but has seen rapid adoption in higher education over the past two years (Appendix B).

The specific aspects of the Unizin future vision that appear to provide the most opportunity for the University of Iowa, and which are currently not available in the ICON environment, are:

- **Analytics**: Rich access to data that will improve our ability to provide meaningful learning analytics to students and instructors
- **Content sharing**: Flexible content sharing that will offer faculty the opportunity to discover, contribute and share learning objects, from individual test questions and assignments, to entire courses, as they choose

A migration to a new LMS is a major undertaking and requires serious consideration, testing, planning and implementation. D2L has been the single LMS at Iowa for 10 years and is heavily used across campus. Any move to a new platform will be viewed as a major change, even if the new LMS is substantially the same or even better. Therefore, seeking as much consensus as possible across campus will be critical to success.

Early conversations with campus stakeholders indicate a growing consensus that full migration to Canvas, and away from our current D2L platform, is the appropriate next step. In particular, these stakeholders have expressed confidence in the ability of ITS staff, local support staff and faculty to complete a migration successfully, based on the past experience of large migration projects, including the major ICON upgrade completed in fall 2014, and they are impressed with early pilot outcomes.
These conversations have already included:

- The Canvas pilot faculty – (Appendix C)
- Associate Dean & Directors
- UI Library Leadership
- Information Technology Advisory Committee (ITAC), a Faculty Senate Charter Committee
- Academic Technology Advisory Council (ATAC)
- The Support Community for Instructional Technology (SCIT)
- Various collegiate IT committees and faculty groups

We are completing a broader communication plan to the remaining campus stakeholders and, barring any major concerns, plan for full migration to the Canvas platform by the end of spring 2017. This will allow us to complete any final data archiving or other issues within the D2L platform prior to the end date of our contract with them, which is December 30, 2017. Beginning this process with the summer 2016 courses will provide us the best opportunity to meet a summer 2017 deadline. This timeline assumes a final decision, with contracts in place, by the end of February 2016.

The high level timeline for migration would be:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall 2015</th>
<th>Spring 2016</th>
<th>Summer 2016</th>
<th>Fall 2016</th>
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</table>

Courses start in Canvas

**Additional Resources**

For information on Iowa’s Unizin initiative:  
http://teach.its.uiowa.edu/initiatives/unizin

For more information on the Canvas Pilot:  
http://teach.its.uiowa.edu/initiatives/unizin/canvas-pilots

For more information on the Unizin Consortium and its members:  
http://unizin.org/
Canvas Pilot Outcomes

ICON staff have now fully supported two live pilots of the Canvas environment – summer 2015 and fall 2015 – and we are in the midst of a much larger pilot this semester. The Canvas pilot license provided for ten courses and up to 2,500 students during the summer and fall semesters, and twenty courses and up to 5,000 students in spring 2016 semester. In preparation for the pilots, Canvas was integrated into the ICON dashboard to provide seamless access for instructors and their students. Students were able to log into the ICON dashboard and access their Canvas courses in the same way that they currently access their D2L courses.

A team of staff identified a range of course sizes and types, both fully online and traditional, from every college on campus, in order to provide substantial information regarding the functionality and usability of the platform. That same team worked closely with individual pilot faculty and provided necessary support for transferring course material from D2L to Canvas, as well as ongoing support throughout the pilot. The length of time needed to transfer and/or rebuild sites varied for each course. However, simple migrations of content from D2L to Canvas appear to take approximately 5 minutes and are quite accurate.

Instructors and students were invited to provide both positive and negative feedback to the ICON team about the functionality of Canvas in comparison to D2L, and to rate the perceived difficulty of migrating to Canvas in the future. Both summer and fall assessment results indicate generally positive response from instructors and somewhat neutral results from students.

After benefiting from two fairly successful pilots, we substantially increased the spring pilot in order to provide one final, more robust opportunity to test the system and determine future support needs for a successful migration. The spring semester has kicked off with no major concerns.

Faculty Survey Results – Summer and Fall 2015

As mentioned above, Canvas was piloted in live courses beginning with summer 2015 and continuing through the end of spring 2016. The summer pilot was smaller than the fall or the spring pilots simply because there are fewer classes offered in the summer sessions than the rest of the year. The majority of courses piloted in the summer were online courses.

Nine instructors from eight courses participated in the summer Canvas pilot study. Five of them were associate or full professors, two lecturer or adjunct faculty, and two teaching assistants. All instructors indicated intermediate, advanced, or expert for their technology proficiency. All instructors were satisfied with the accessibility of Canvas with their computers including laptops and tablets. Only one instructor’s response was neutral regarding access using a cell phone.

During the fall semester, eight instructors from eight courses participated in the Canvas pilot assessment - six tenured faculty, one lecturer and one adjunct faculty. Seven respondents indicated intermediate, advanced, or expert technology proficiency and one instructor reported basic proficiency. All instructors were satisfied with accessibility of Canvas with their devices, including laptops and tablets. No instructors accessed Canvas using a cell phone.
Eighty-nine percent of the summer instructors indicated overall satisfaction with Canvas, with 11% indicating a neutral satisfaction level (Figure 1a). During the fall pilot, instructors again indicated overall satisfaction with Canvas with 87.5% either satisfied or very satisfied (Figure 1b).

Instructors’ were asked to compare the usability and effectiveness of Canvas in comparison to our current LMS, D2L (Desire2Learn). Responses regarding usability and effectiveness were generally positive.

Below, see other statistics regarding usability and effectiveness (Figure 2a and 2b), ease of transition from D2L to Canvas (Figure 3a and 3b), and the desire to continue using Canvas instead of D2L (Figure 4a and 4b).
Instructors’ perceptions of usability and helpfulness for students with twenty Canvas tools were positive. Of twenty Canvas tools, announcement, assignments, gradebook, files, homepage, and SpeedGrader (https://www.youtube.com/watch?v=0rp5rT6M-xY) were used by most instructors.

When asked how helpful the analytics in Canvas were for their teaching, six summer instructors responded and all of them found the analytics helpful for their teaching. Only three fall instructors used “analytics” and they perceived analytics helpful in their teaching. They used analytics to see what resources students used, when students last interacted with the course site and to monitor students’ activities.

In the fall, instructors’ positive perceptions with Canvas were related to a calendar organization feature, fewer clicks to complete tasks, better grading and rubrics, including ‘SpeedGrader’, and overall better interface than D2L. On the other hand, the negative perceptions were related to not being able to drag and drop files, email function, and file interface. The instructors’ direct comments are listed at the end of this document in Appendix D.
In the summer pilot, 88.9% of the faculty reported easy or very easy transition to Canvas, with one respondent (11.1%) reporting difficulty in transition (Figure 3a). During the fall, 50% percent of the pilot instructors found the transition from D2L to Canvas easy or very easy, two instructors found it difficult, and two instructors were neutral (Figure 3b).
Overall, instructors’ experiences with Canvas and the support they received were positive. More than half the instructors indicated that they would recommend Canvas to their colleagues and that they would like to continue using Canvas instead of D2L.

![Faculty Preference Canvas over D2L (%) - Summer 2015](image)

![Faculty Preference Canvas over D2L (%) - Fall 2015](image)
Student Survey Results—Summer and Fall 2015
During the summer 2015 pilot of Canvas, 236 students were enrolled in pilot sections. Of those students, 88, or 37.3%, responded to a survey regarding their experiences in the Canvas environment. During the fall pilot, 603 students participated in the Canvas pilot. Of this group, 163 responded to the survey, representing a 27% response rate.

Participants
Of 88 summer participants, juniors made up the largest group (46.6%), sophomores and seniors were each 25% and 23.9%, respectively. Only one freshman, one graduate student, and one non-degree student made up the remainder of the students responding. In the fall, the 163 survey participants included 12.3% sophomores, 39.9% juniors, 31.9% seniors and 13.5% graduate students. There were only two freshmen participants and two non-degree students.

Among the summer participants, 87.5% of students reported that they did not have any experience with Canvas prior to this summer. This percentage was relatively the same in the fall with 85.9% reporting no experience with Canvas prior to fall 2015.

Device usage & Satisfaction with accessibility with each device
Most of the summer students reported that they logged into Canvas frequently; more than once a day (30.7%) and once a day (45.5%). Over 20% of students reported that they logged in more than once a week.

Over 57% of fall students reported that they logged more than once a week, 24.5% once a day, and 15.3% once a week or less. Three students (1.8%) reported that they logged more than once a day.
In both semesters, students reported using a variety of devices to access Canvas, with personal laptops being the most used in both semesters. However, cell phones and tablets were used frequently as well. This trend indicates the importance of an easy-to-use, but feature-rich, mobile interface, which we have struggled to attain in the D2L platform.
Students were relatively satisfied in the accessibility (meaning the ease-of-use) of all devices, with scores above the mean on a 5-point scale, although phones and tablets were still reported as less accessible than other devices.
Canvas Features

Students’ reported neutral to somewhat positive experiences with Canvas features during both semesters. (Figures 5a and 5b)

Among the features offered by Canvas, students were most satisfied with the “Grades” tool. Students were least satisfied with the “Chat” tool.

Despite the fact that student satisfaction with Canvas was neutral to somewhat positive, their desire to use Canvas in other courses is relatively low. Analysis of student comments related to this question
indicate that students did not see enough difference between Canvas and D2L to warrant any large change or that they were confused about whether “ICON” would be discontinued. Since Canvas will actually become ICON, future communication with students will need to address this misconception.

Students were asked to comment on their responses to the above scale and they commented:

- I feel that it is the same as ICON
- I don't have a preference. ICON is fine.
- Simple and easy
- It's extremely similar to ICON but the grade tool is much better in canvas
- It didn't affect my learning, so I don't have an opinion.
- I don't see it more useful than ICON
- It is the same as ICON and its unnecessary to change
- It is useful it just seems like the exact same thing as ICON
- It's basically the same as ICON so I don't care.
- I like how you can dictate your grades base on what you have already as a score in the class.
- It is much more user friendly. Also, I feel it is more organized.
- I thought the layout was far better than ICON, having the tabs more condensed on the left was better than on the top like ICON. I like how it updated me quicker and more pertinent
info rather than giving me too many emails about assignments due in a week’s time like ICON. Better site entirely.

- It is exactly like ICON. Pointless to make the switch
- Canvas is basically ICON, there are no real differences in features and CANVAS is harder to maneuver. The upside is being able to calculate your grade by inputting "fake" scores into the system.
- Easier to navigate than ICON
- I really don't actually care that much
- I really have no preference. I could get to materials in the same way.
- It seems to have the same features and similar organization to ICON. ICON is familiar and therefore I think is better to just keep using ICON. The only feature unique to canvas that I appreciated was you could calculate your possible grades on different assignments and the feedback was more clear and had more information than ICON offers.
- I am used to ICON, therefore I would rather use that. Also, I didn't like how it didn't tell you what modules you had opened/read like ICON does. When you know you have opened it, it is easy to assume what assignment is next.
- We didn’t use it enough in class for me to really choose an answer
- I feel it’s a lot like ICON just set up a little differently. I don’t really have a preference

Experience any technical difficulties using Canvas

Students reported relatively few technical problems using Canvas overall, with improved technical issues in the fall. Some of this might be attributed to technical staff having more experience by the fall semester in supporting the faculty and the system.

Satisfaction and Preference Canvas

Students’ overall satisfaction with Canvas and preference for Canvas over D2L was positively related to the frequency of logins with Canvas but negatively related to their experiences with technology difficulty. However, their preferences were not related with students’ academic year nor with prior experiences with Canvas.
Overall

While student responses and comments do not indicate the same level of enthusiasm for Canvas as seen in the faculty surveys, there were no extremely negative outcomes that would cause us to pause movement toward Canvas. We are using this information to engage student leadership across campus to help understand and address any concerns regarding a Canvas migration.

Additional general comments from the students to other questions in the survey are located in Appendix D. Full reports for both the faculty and student outcomes are available upon request.

Special thanks to Jae-Eun (Jane) Russell, PhD, for her work on these assessments.
Appendix A – Unizin Membership

Founding Members:

- Colorado State University
- Indiana University
- Oregon State University
- Penn State University
- The Ohio State University
- University of Michigan
- University of Florida
- University of Iowa
- University of Minnesota
- University of Nebraska Lincoln
- University of Wisconsin-Madison

Subscribing Members:

- University of Florida System – eleven schools
Appendix B – Higher Ed Canvas Adoption

The Unizin member schools are all in some stage of migration or pilot of Canvas, but it is also being used or considered at three of the non-Unizin CIC institutions (see table below).

<table>
<thead>
<tr>
<th>Unizin Member Institutions</th>
<th>Current/Past LMS</th>
<th>Status</th>
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<tbody>
<tr>
<td>Indiana</td>
<td>Sakai</td>
<td>Canvas migration almost complete</td>
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<tr>
<td>Iowa</td>
<td>Desire2Learn</td>
<td>Canvas pilots</td>
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<tr>
<td>Michigan</td>
<td>Sakai</td>
<td>Canvas migration almost complete</td>
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<td>Minnesota</td>
<td>Moodle</td>
<td>Canvas pilots</td>
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<tr>
<td>Nebraska</td>
<td>Blackboard</td>
<td>Canvas pilots</td>
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<tr>
<td>Ohio State</td>
<td>Desire2Learn</td>
<td>Canvas pilots</td>
</tr>
<tr>
<td>Penn State</td>
<td>Angel from Blackboard</td>
<td>Canvas migration beginning</td>
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<tr>
<td>Wisconsin - Madison</td>
<td>Desire2Learn</td>
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<table>
<thead>
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<th>Non-Unizin Institutions</th>
<th>Current/Past LMS</th>
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<td>Multiple</td>
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<td>Canvas</td>
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<tr>
<td>Purdue</td>
<td>Blackboard</td>
<td>Canvas pilots in next year</td>
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<tr>
<td>Rutgers</td>
<td>Blackboard</td>
<td>Blackboard</td>
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Canvas is experiencing rapid adoption outside the CIC and Unizin as well. Per an article on ListedTech on November 23, 2015 (http://listedtech.com/lms-providers-market-share-implementation-year/), Canvas “now represents around 50% of all new implementations” in the North American market.
# APPENDIX C

## Canvas Pilot Faculty Participants

### Summer 2015

<table>
<thead>
<tr>
<th>Who</th>
<th>College</th>
<th>Department</th>
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<tr>
<td>1 Jill Smith</td>
<td>Business</td>
<td>Management &amp; Organizations</td>
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<tr>
<td>2 Jill Davis</td>
<td>CLAS</td>
<td>Anthropology</td>
</tr>
<tr>
<td>3 Rebekah Chappell</td>
<td>CLAS</td>
<td>Dance</td>
</tr>
<tr>
<td>4 Rebekah Kowal</td>
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<td>Dance</td>
</tr>
<tr>
<td>5 Linda Knudtson</td>
<td>CLAS</td>
<td>Microbiology</td>
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<tr>
<td>6 Brian Lai</td>
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<tr>
<td>7 Sarah Vigmostad</td>
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<td>8 Al Ratner</td>
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<td>9 Jo Eland</td>
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<td>1 Jon Garfinkel</td>
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<td>2 Bryant McAllister</td>
<td>CLAS</td>
<td>Biology</td>
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<td>3 Eloy Barragán</td>
<td>CLAS</td>
<td>Dance</td>
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<td>4 Heidi Lung</td>
<td>CLAS</td>
<td>Museum Studies</td>
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<td>5 Bob Cook</td>
<td>CLAS</td>
<td>Music</td>
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<td>6 Christopher Roy</td>
<td>CLAS</td>
<td>School of Art and Art History</td>
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<td>7 David McGraw</td>
<td>CLAS</td>
<td>Theater</td>
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<tr>
<td>8 Veeratrishul Allareddy</td>
<td>Dentistry</td>
<td>Oral Pathology, Radiology &amp; Medicine</td>
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<tr>
<td>9 David Roman</td>
<td>Pharmacy</td>
<td>Medicinal &amp; Natural Prd Chemistry</td>
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<tr>
<td>10 Tanya Uden-Holman</td>
<td>Public Health</td>
<td>Health Management and Policy</td>
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### Spring 2016

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<td>2 Michael Hill</td>
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<td>3 Amanda Van Horne</td>
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<td>4 Daniel Caplan</td>
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<td>7 Nancy Langguth</td>
<td>Education</td>
<td>Teaching &amp; Learning</td>
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<td>8 Asghar Bhatti</td>
<td>Engineering</td>
<td>Civil-Environmental Engineering</td>
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<td>9 Hans Johnson</td>
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<td>11 Paul Gowder</td>
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<td>David Eichmann</td>
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<td>Brett Cloyd</td>
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<td>30</td>
<td>Pilar Marce</td>
<td>CLAS</td>
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Appendix D – Faculty and Student Comments

Instructors’ Comments – *note that all comments are verbatim from the survey with no editing or correction*

When asked what Canvas does most effectively, instructors reported:

- **Summer 2015**
  - Grading: SpeedGrader function, made grading faster and more efficient
  - Communication with students: a notification feature associated announcement & mobile app
  - Interface is better
  - Easy to create and edit content: Direct editing function

- **Fall 2015**
  - Calendar organization to the course. Students know what's due and when
  - Overall interface is excellent and responsive compared to ICON
  - Compared to ICON less clicks to complete the task at hand. Also, I think it looks so much better than ICON which looks outdated. Images and videos are easily imported. Communication with students. I like the notifications Canvas sent me when I had a student contacting me.
  - Grading. Rubrics are wonderful, Speed Grading is excellent. And I have a lots of small, participation-based assignments. Being able to click on full-credit for a 2-point project for all but those who were absent is terrific.
  - Allow for customizing delivery of course materials through the Pages feature. In ICON, I embedded wiki pages into the homepage for this. However, in Canvas the Pages feature provides a seamless integration of a wiki.
  - I like "less clicks" and the analytics. I enjoy being able to give students feedback in different forms of media. I very much like the Discussion tool. It looks more up to date. Having been new to both ICON and Canvas this semester, I very much preferred Canvas for ease of set up. I am sure there are several tools I am not using with Canvas that I would find useful.
  - It will be very painful to go back to ICON. The rubrics alone would be the selling point. But the SpeedGrader is excellent for providing detailed feedback and back-and-forth conversations for ongoing assignments. I also really loved the Modules so that I could make a long-term assignment appear for multiple class sections easily. And if I need to add information or make an adjustment to an assignment, I could do it in one place and it would appear everywhere. I changed the submission format for a project a week after assigning it but a week before it was due and I only had to make the change in one place.

When asked what support/training should be provided to faculty using Canvas for the first time, instructors reported:

- **Summer 2015**
  - Instructors would need assistance helping to transfer materials from ICON to Canvas.
  - Understand how the “assignments and gradebook work and link up.”
  - Initial training
  - Set up a forum or establish time each week when faculty could drop in to discuss issues.
Fall 2015
- I self-figured it out, it was that easy.
- I wish I had known more about the analytics before I started. How to migrate course content from ICON to Canvas will be most useful.
- Tutorial
- I did not require any support at launch.
- Course templates should be available for basic course functions. I wish I had a better understanding of the differences between Pages and Modules and their functions within Canvas.

When asked about drawbacks or gaps of Canvas, Instructors reported:

Summer 2015
- Need an email function
- It is problematic that in order for the gradebook to work there need to be correlating assignments turned in in the dropbox (e.g., grade for participation)
- Setting the gradebook was difficult
- In the gradebook, a total grade and assignment grades cannot be turned off.
- See attendance in a different format
- Problems with the content posted under the "file" tab – could not see the files and uploaded content depending on the browser.
- File upload system
- The ability to give bonus points
- The ability to use a PowerPoint show
- Some students had problems in seeing images
- The exam function is not as customizable compared to D2L (currently in ICON).
- Needs to be quicker navigation between groups and to get back home, count a Discussion posts and responses per student

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- Only drawback I’ve found is not being able to drag and drop files like I can in D2L.
- Analytics on time spent watching/listening to recordings (accessed via Canvas but coming from Sharestream).
- File interface system could be better, display power point without ability to locally download the file.
- The discussions cannot be put into folders. I had to constantly pin/un-pin discussions to help students find the current topics.
- I never mastered control of the automated Canvas Notifications sent each Sunday night. Canvas also incorrectly reported to students the time that assignments were due (I expect this was because the students did not have the time zone set correctly). / There should also be better control of the Pages Interface with greater opportunity for the Instructor to organize the course pages.
- Some simple functions such as "email the whole class" are very clunky. Needs a streamlined way to do that. / Also, having exams and quizzes that need to be created as "assignments" to appear in the gradebook is not intuitive.
- Overall it is user, but certain aspects of it including Files are used and how to embed an image how it has to be uploaded is clunky, once you upload an image it does not
immediately update unless you exit out of the questions and return. This is an extremely clunky way of doing things.

- Setting up simple things in the course in Canvas seemed more difficult than with ICON. It may be because my greater familiarity with ICON, but some aspects of Canvas were not very obvious or manageable. For example, I never managed the Announcements so that useful information was delivered to students. Canvas kept sending notifications after a due date and the email was delivered to the Junk folder. / I couldn’t find an option to create a page that was open for students to edit. I ended up needing to use the UI wiki service for this feature. / I also do not like the organization of the Pages interface. There is no way for the user to control the order of the pages other than sorting alphabetically or by date.

**Student Comments - note that all comments are verbatim from the survey with no editing or correction**

**When asked what they liked most about Canvas and why, students responded:**

- Grades
- It’s organized
- I like that the completed grades are right on the side of the home page of canvas
- User friendly
- The grading because it was easy
- The level of organization and categorization. I feel like everything is in a place where I can find it.
- The layout because it makes using the site more fluid.
- The grading
- Being able to input pretend scores to calculate your final grade
- I like the side tool bar that plainly and simply lists all of the pages
- Canvas has a great personality and a beautiful smile
- Format is easy to use.
- The features in the grades section. Many students want to calculate their potential grade if they do well or not so well on assignments. This feature and others in the grades section is helpful information.
- I really like the comments in the grade section because it is a quick response from your instructor letting you know how you did.
- Pretty fast at loading, very little delay at downloading or viewing items
- I liked that the links were on the side

**When asked what they liked least about Canvas and how it could be improved, students responded:**

- How it doesn’t show you what files you have or have not opened and viewed.
- Slow
- Have modules organized better
- Nothing because i thought it was utilized well
- Nothing just similar to icon
• It's hard to maneuver and the interface is not as simple as ICON. It seems like a hassle for both students and professors to learn the new system when there is really nothing wrong with the old system.
• I wish there was a notifications button similar to that of ICON
• You can't tell what links you have opened or used before.
• I don't like how it doesn't tell you what modules you have already opened. This could be fixed by changing the color of the title of the modules after they have been opened.
• It didn't check off what I had done like ICON does and I found myself opening and looking at things I had already looked at. Also everything looked the same, no colors or icons differentiated different sections.
• I just didn't really feel comfortable with the program because I had never used it before and am so used to ICON.