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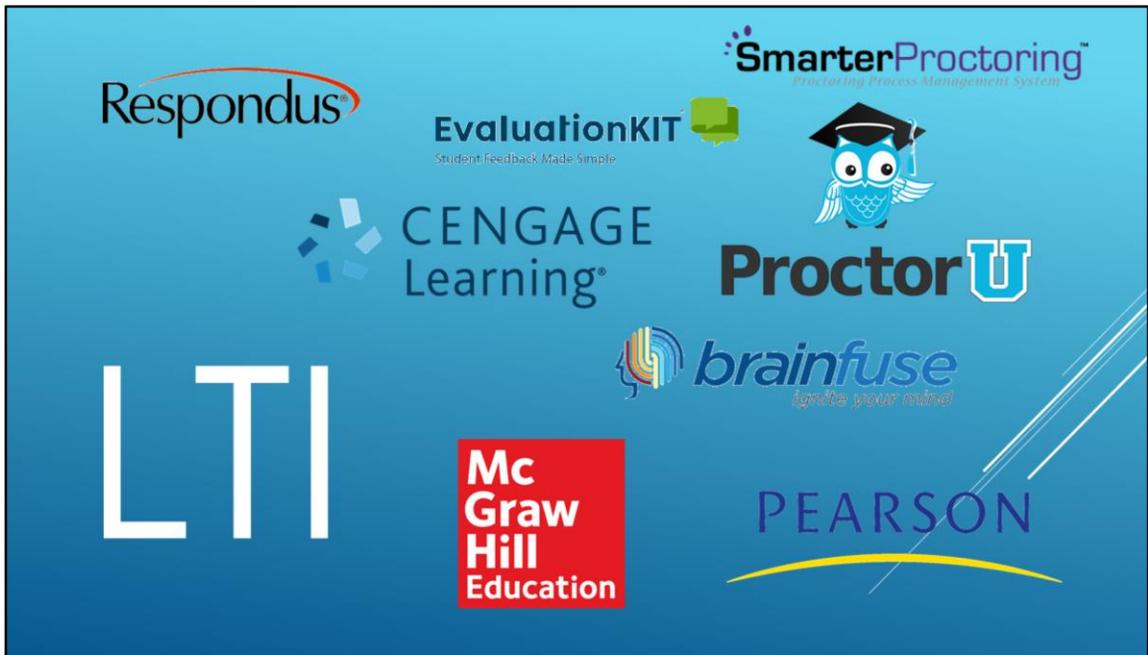
Over the last several semesters we have been steadily growing in the number of student credit hours that are online. We are approaching a quarter of our student credit hours offered fully online.



In the fall of 2013 we selected Instructure Canvas as our learning management system and with a group of about 80 faculty we converted multiple courses from our old system to Canvas for the spring 14 semester. Over the spring semester we worked to move the rest so that all courses were offered in Canvas by Summer and Fall of 14. The reason I state that because it points to the ease of use for faculty and students to use. In fact most faculty started from scratch in Canvas rather than exporting content from ANGEL and working with old material. We had one faculty member convert an entire course in an afternoon.



One of the things that makes Canvas so special is that it is hosted on Amazon web services in the cloud. They also do updates differently than any other LMS – we very rarely see a time when Canvas needs to be down for an update to be applied. Over the last two years we have only been without Canvas for perhaps an hour or two any of the other tools we had to wait to do updates between semesters because it would need to be down for a couple days while we made changes.

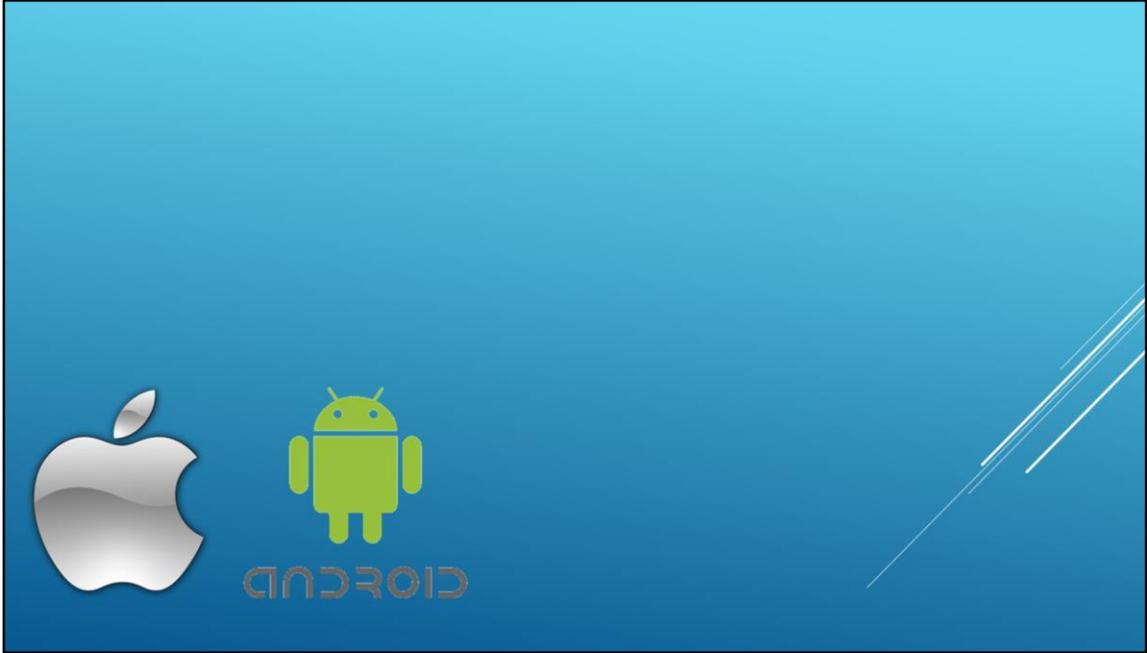


Learning Tools Interoperability – this functionality that Canvas has built in allows us to integrate with many publishers and other tools that extend the functionality of Canvas. We are able to offer single sign on for students and faculty with publisher based content, all of our end of course evaluations are delivered through Canvas, and proctoring and other testing security can be provided through the tool. What is really amazing with this service it only requires a consumer key, shared secret, and a URL and most tools are setup within 5-10 minutes, campus wide, school, department, or courses can add the tool.



# 15

This is the number of K-12 schools and higher education institutions that are currently using Canvas in New Mexico. This means that if a student decides to transfer to another institution or when they go to college will already be used to using the tool and there isn't any learning curve. Currently we are apart of a consortium with other community colleges and branch campuses in the state of New Mexico where we can share seats in online classes. Because many institutions in the state use the same LMS students can just focus on taking the classes rather than having to learn a new system. Because of this initiative we were able to offer another section of our human development course this semester online because we had 17 students from UNM Taos who needed the class.



Canvas also provides multiple mobile apps for using Canvas for both faculty and students. The SpeedGrader app for faculty allows faculty to grade from their mobile device both android and ios and students can now take quizzes via the mobile devices as well.



## MATH, SCIENCE & ENGINEERING

Since Fall 2010, over 6300 students have taken online math courses. These courses include Pre-Algebra, Beginning Algebra, Applied Math for Vocational Studies, Math for Health Careers, Intermediate Algebra, Conceptual Mathematics, College Algebra, Pre-Calculus, Trigonometry, and Statistics.

Since Fall 2010, over 600 students have taken online science courses in Astronomy, Biology, Chemistry, Geology, and Physics. The biology and chemistry courses include laboratory components, which the students are able to complete at home using special “laboratory kits.”

On-campus mathematics courses use technology to aid instruction. Several instructors are using ALEKS (a web-based assessment and learning system) to teach using a flipped classroom format. They are replacing traditional lecture with individually focused instruction and practice problems. Students can work at their own pace through material they understand and can then receive individualized instruction as needed. Faculty also use homework management systems, such as MyMathLab, to provide students with algorithm-based practice problems. Students taking differential equations are taught how to use the software system Maple, and students in statistics learn how to use Minitab. Both of these systems are commonly

used in industry to facilitate mathematics and statistics calculations.

San Juan College is organizing a state-wide Summit on Mathematics Pathways that will be held on October 2<sup>nd</sup> in Santa Fe. The summit is to bring together administrators and math faculty from across the state to discuss developing different math tracts (STEM and non-STEM) that would be transferrable to institutions across the state.

## TRADES & TECH



**Utilization of Canvas, a new learning management system** – Canvas was introduced to our school approximately 2 years ago. This software is very intuitive and easy for student and faculty to navigate. The technology with-in Canvas allows assignments to be created from several places in the website. Each assignment is automatically added to the course calendar, the syllabus and the gradebook. Grading is simple and weighted grades can be added with ease allowing students to track their progress and participation on projects, assignments and exams. Canvas is currently being utilized in our fully on line program Vet-Tech as well as hybrid courses in EMS. New courses in Fire Science are being developed using this technology as well. Other Trades and Tech programs like Welding, Auto Body, Cosmetology, and more use Canvas to enhance their face to face courses, like take attendance, post grades, handouts, and more.



## HEALTH SCIENCES

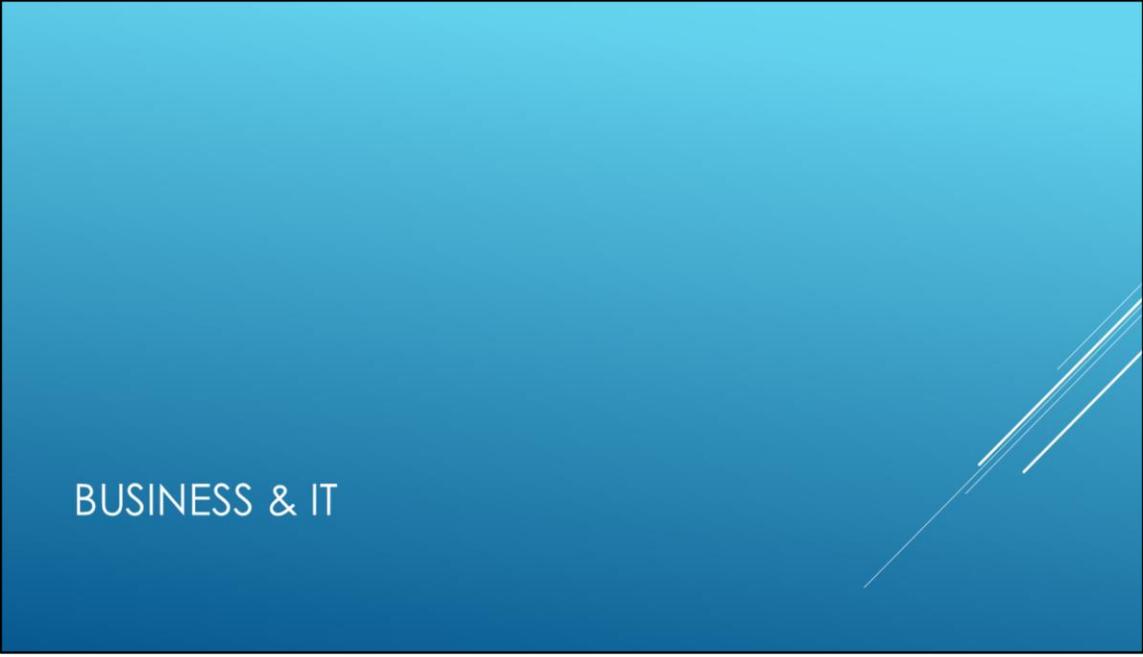
Health Sciences has two fully online programs that have a national reach – the Physical Therapist Assistant and Health Information Technology Programs. Both programs utilize Canvas to deliver their course content to students all over the world. They both use ProctorU to virtually proctor their exams allowing students to remain at home and securely take their exams at any time that suits them. Health Sciences also has a Sim Center that has been in use for six years and students are able to be used for task training: IV placement, intubation, foley catheterization, or for assessment practice.



### **Occupational Safety Online Degree Program**

San Juan College / School of Energy's Occupational Safety Online Degree Program has outreach across the United States and around the globe. Over 60% of all registered students in the program live outside the State of New Mexico, and we have had students enrolled in our courses from many different countries such as Indonesia, Japan, Brazil, Iraq, Nigeria, Australia, and Afghanistan. While most of our students taking our courses outside of the United States are Department of Defense employees, or civilian defense contractors, we also have American students enrolled in the program working in the energy, and mining sectors in diverse parts of the world.

The online nature of the program gives our students the flexibility to attend classes and maintain their work schedules to ensure a strong student success rate, which have remained above 90% since the inception of the program.



## BUSINESS & IT

The school of business and information technology provide online course work for an Associates in business administration as well as several online accounting courses. They also support other online programs with the Computer science courses offered online.



## HUMANITIES

The school of humanities provides many of the electives, and required core that supports all of our online programs. This includes courses in English, History, Psychology, Sociology, Art, Communications, and lately we have been moving into foreign language online with Spanish and Navajo. We even ran an online sign language course several semesters.