



Library Links

3rd Edition

Library and
—— Learning Services ——
Newsletter

DSUTM

DIXIE STATE UNIVERSITY
ST. GEORGE, UTAH

A MESSAGE FROM THE DEAN

Kelly Peterson-Fairchild

When people think of the library and learning services, they usually think of books and tutoring. While these are a large part of what we do within the Holland building, our work includes much more. We are here to help the university community becoming intellectually engaged and curious. As Matthew Sanders stated in his “Becoming a Learner” book (used in all of our Trailblazer Connections FYE classes), we want “to develop you into a person who can reason, think deeply and creatively, and be a lifelong learner” (11).

Librarians, for example, have responsibilities such as teaching courses, being liaisons to departments, working on program assessment, and developing professionally, as well as evaluating and carefully choosing books, journal articles, and electronic resources to offer in our library. Ultimately, librarians make sure students, faculty and staff have the information they need to be successful learners, teachers and professionals.

Likewise, those who work in learning services do much more than tutoring. They teach courses, create training programs, work within campus departments, participate in retention efforts, and of course, help students learn the skills needed to pass exams or finish a writing assignment. These are skills necessary for success in college, but they are also essential for becoming a valued and capable employee in any field.



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While books and tutoring might be the most visible parts of our programs, the work that is sometimes less apparent might be the most important. Dianne Aldrich, for example, works with the English Department to help teach information literacy skills to composition students. She recently presented at a national conference on this topic and was able to bring back ideas on how to best integrate information literacy into the curriculum. Participating in national professional organizations also means we are constantly learning and making positive changes in our department. In another example, Rob Gray and I attended the CRLA annual conference. As a result, the Academic Performance Center and Writing Center has applied to be a CRLA certified center, with tutors and mentors across campus formally trained in best practices.


Other notable staff achievements include Tracey O'Kelly completing a fundamentals of cataloging course, so she could add more items from Special Collections to the library's catalog. Once processed and described, these unique primary sources are accessible for student and faculty and community use. Another of our librarians, John Burns, has been working closely with the Mechanical Engineering Department on projects such as the Maker's Certificate. John Burns also attended a conference recently where he presented, "Insight and Impact: Thriving as a Solo Art Information Professional," which tells about his work with DSU's Art Department.

As you scroll down, you'll read about these and a few more projects library and learning services personnel have been working on to better serve Dixie State's faculty, staff, and students. I hope you enjoy reading about some of our activities that happen behind the scenes.

MAKER CERTIFICATE

Hailey Faiola

The Mechanical Engineering department at DSU is now offering a Maker Certificate. “[This certificate] bolsters the prototyping capabilities of entrepreneurs who are seeking to start a business [or] obtain a patent,” advises Mechanical Engineering faculty member, David Christensen; “Certificates give valuable skills in a short amount of time. The Maker Certificate does just that.”

B.S. of MECHANICAL ENGINEERING - 2018-19 (126 cr)								
 Admission <ul style="list-style-type: none"> Apply to DSU Declare major as Pre-Engineering Pass courses denoted by a star with C- or better Meet with the MECH academic advisor to apply Once admitted, your major is switch to Mech. Engr. and you can take locked courses Maker Certificate <ul style="list-style-type: none"> Complete the four courses with a bold outline to earn the Maker Certificate Also see Entrepreneurship Certificate Graduation Requirements <ul style="list-style-type: none"> DSU BS requirements ≥ 2.0 cumulative DSU GPA Pass FE exam. More info at www.ncees.org ≥ C- in major courses 	Year 1		Year 2		Year 3		Year 4	
	Fall (15cr)	Spring (16cr)	Fall (17.5cr)	Spring (15.5cr)	Fall (15.5cr)	Spring (16.5cr)	Fall (15cr)	Spring (15cr)
MECH XXXX Course Title cr L S Co-requisite Prerequisite Major Course Maker Certificate Course Gen Ed Course Tech Sequence	MECH 1000 Intro Design & Prototyping 3 P F	MECH 1200 Coding 4 P S	MECH 2210 Circuits 3 L F	MECH 2250 Sensors & Actuators 4 P S	MECH 3200 Systems & Controls 3½ L F	MECH 3250 Machinery 4 P S	MECH 4000 Product Design I 3 P F	MECH 4010 Product Design II 3 P S
	MECH 1100 Manuf. Processes 3 T F		MECH 1150 Prototyping Techniques 2½ L F	MECH 3600 Thermo 4½ L S	MECH 3700 Fluid Mechanics 4½ L F	MECH 3650 Heat Transfer 3½ L S	Tech Elect 2 MECH 4xxx or from List 3 F,S	Tech Elect 4 MECH 4xxx or from List 3 F,S
		MECH 2160 Materials Science 3 S	MECH 2010 Statics 3 F	MECH 2030 Dynamics 3 S	MECH 3300 Strengths 4½ L F	Tech Elect 1 MECH 4xxx or from List 3 F,S	Tech Elect 3 MECH 4xxx or from List 3 F,S	
		CHEM 1210 Chemistry I 4 F,S,U	PHYS 2210 Physics I Sci/Engr 4 S	PHYS 2220 Physics II Sci/Engr 4 F			FE Exam www.ncees.org	Life Sciences 3 F,S,U
CR Credits F Fall S Spring U Summer (check schedule)	CHEM 1215 Chemistry I Lab 1 L F,S,U	PHYS 2215 Physics I Lab 1 L S	PHYS 2225 Physics II Lab 1 L F			ENGL 2010 Intermediate Writing 3 F,S,U	ENGL 3010 Writing in the Professions 3 F,S	American Institutions 3 F,S,U
General Science Thermo/Fluids Mechatronics	MATH 1210 Calculus I 4 F,S,U	MATH 1220 Calculus II 4 F,S,U	MATH 2210 Multivariable Calculus 4 F,S	MATH 2250 Diff Eqns & Linear Algebra 4 S	MATH 3500 Numerical Analysis 3 F	Fine Arts 3 F,S,U	Social & Behavioral Sciences 3 F,S,U	Literature/Humanities 3 F,S,U
General Education Note: Mathematics, Physical Sciences, Laboratory Sciences, and Exploration fulfilled with mech eng coursework.								

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This certificate is comprised of four Mechanical Engineering classes: MECH 1000/05, MECH 1100, MECH 1150, and MECH 1200/05. In each of the courses, students will learn a variety of skills including programming in Matlab (a high-performance software used for technical computing), laser and vinyl cutting, welding, composite laying, 3D printing, and vacuum forming.

Students who take MECH 1200/05 participate in Dixie Design Day by designing and building robotic obstacles for mini golf. The Certificate includes stackable courses for students who are majoring in Mechanical Engineering. “Anyone interested in Innovation Plaza would benefit greatly from the Maker Certificate,” Christensen reminded. Since this certificate entails many of the required courses for completion of a Mechanical Engineering degree, students are encouraged to pursue this certificate during their time in the program.

HOLLAND PATIO LEGACY PAVERS

Georgya Brewster

Around campus, engraved bricks line the ground. The Legacy Paver Project grants a connection to the Dixie State University campus, and it allows people to leave a legacy for years to come. Anyone has the opportunity to purchase a 10 inch by 16 inch brick for \$600 then decide on the information that is engraved. The most common engraving on the legacy pavers is the names of those who purchased it. The bricks are installed around campus at memorial plaza areas, including the Holland Building Patio.

The price of these pavers holds a historical significance reaching back to the construction of the St. George Tabernacle between the years 1862 and 1876. In Reid Larkin Neilson's article, "The Peter Neilson Legacy," he explains the hardship of building the Tabernacle. All of the materials besides the clock, bell, and window panes were sourced locally. The 2,244 window panes needed would cost \$800 to be shipped from New York. The Saints could only raise \$200 over a period of six months. Peter Neilson, a successful tailor turned into a thriving farmer, had saved up \$600 to remodel his home.



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The night before the window panes were to be paid for, Neilson could not sleep. He came to the conclusion that the Church of Jesus Christ of Latter-Day Saints was in greater need of the money than he was. He sacrificed the \$600 to purchase the windows for the Tabernacle. In honor of Peter Neilson, the legacy pavers are priced at \$600 as a reminder of the sacrifice that he made to construct the St. George Tabernacle.



To purchase a Legacy Paver, an online form can be filled out at <https://development.dixie.edu/holland-patio-legacy-pavers/>. They can also be purchased by mail or in person at the Development Office in the Burns Office Complex. Once your brick is installed, a notification of its location will be sent to you. This is a unique opportunity to support Dixie State University and to leave a legacy.

IMPORTANCE OF PROFESSIONAL DEVELOPMENT

Kendell Mapp

Dixie State University is always looking for ways to improve for the students. DSU facilitates the enhancement of faculty through the encouragement of attending professional development conferences. Recently, Rob Gray, DSU's Director of Learning Services, attended the College Reading and Learning Association (CRLA) national conference in Albuquerque, New Mexico with a few colleagues. Gray said, "CRLA certifies our Writing Center and Academic Performance Center[s], and each year they provide the most current information and trends in the tutoring industry." Gray goes on to commend CRLA for their teaching skills sessions. He gives credit to them for his new knowledge on supplemental instruction and educational resources, which are two initiatives that DSU is currently pursuing.

Some people think of these educational conferences as a vacation, but what most people don't realize is attendees are in classes all day. On top of attending classes, they have to complete their regular work, like grading, course prep, and answering emails. Dianne Aldrich, DSU's Public Services Librarian, who attended the biannual Library Instruction West Conference said, "In my opinion, this is the most focused, quality conference for librarians that teach. It was an excellent experience and I was able to make contact and share ideas with other librarians throughout Colorado, Utah, Washington, Oregon, and others." Aldrich continued to give the conference praise by saying that going to conferences, such as this one, is an excellent way to grow professionally. People attend these conferences and gain new ideas that they can mix and match to fit the community and improve their campus.

SUPPLEMENTAL INSTRUCTION

Katie Eastmond

Tutoring programs at Dixie State University help many students learn and improve their grades. However, because this is a “drop-in” service, many students who need help the most don’t go. This is where Supplemental Instruction (SI) comes in. SI is a tutoring program that has benefited over 2,500 higher education institutions. Led by a peer, students have an extra hour per week to ask questions and study in a structured setting. The peer is typically a junior or senior who has excelled in the subject they are leading. This upcoming fall, the program will be implemented in 11 courses in 21 sections at Dixie State. The goal is to decrease DWF rates (percentage of students with Ds, Fs, and Ws) and improve retention rates within the freshman class.

Learning Services Director, Robert Gray states, “Our target group is the at risk students—the students who might struggle a little with those more difficult courses like biology or math. We hope [that] by making these SI sessions mandatory, they will attend

[them] and get that extra learning they’ll need to succeed in the course.” Dixie State students are fortunate to have faculty and staff who have worked hard to receive the Atwood Retention Grant for this program. They go above and beyond for the education and well-being of their students.



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Not only does this program help the students in the course, it helps the peer tutor as well. Makae Rose has been a tutor in the SI program for a year now. She explained, “I get to learn the material way better. I am a biology major, and Bio 1010 is what started it all. It's easy to forget that when you get further into things.”

Supplemental Instruction will enhance the learning experience for students at Dixie State University. There will be more opportunity for learning and understanding. The program has proven successful at other universities, and it will be exciting to see the results at DSU.

