

Faculty Presentation of Program Reviews



PROGRAMS

HSW – Exercise Science

Dr. Cindy Henning / Dr. Erin Nitschke / Katie Blunn

BATS – Computer Information Systems and Cybersecurity (A.A.S.)

Troy Amick

BATS – Equine Science (A.S. and A.A.S.)

Bruce Nisley / Lanae McDonald

HSW – Health Information Technology

Ann Howard

HSW – Surgical Technology

Tracy Perko



EXERCISE SCIENCE PROGRAM REVIEW

DR. CINDY HENNING

ATHLETICS, EXERCISE SCIENCE AND RECREATION
INTERIM EXECUTIVE DIRECTOR

DR. ERIN NITSCHKE

EXERCISE SCIENCE
FACULTY



MRS. KATIE BLUNN

INTERIM EXERCISE SCIENCE
FACULTY

Overview of Exercise Science Program

- Three Associate of Science degrees
 - Exercise Science
 - Leading to athletic training, physical therapy, physical therapist assistant, occupational therapy, kinesiology, health related fields, personal training, strength & conditioning coach
 - Largest # of our majors—approximately 25/year
 - Physical Education Teacher Education
 - teaching in the K – 12 level
 - Approximately 3-5/year
 - Sport Management*
 - Leading to athletic director, coaching, facility management, sport marketing, equipment manager, “the business side of sport”
 - Approximately 6 – 10/year

Overview of Exercise Science (cont'd)

- Two certificates
 - Personal trainer
 - Work in Gold's Gym, Planet Fitness, 24 Hour Fitness, YMCA, own business as a certified personal trainer
 - Scaffolded as part of Exercise Science degree
 - Certificate only 5 – 10/year
 - Coaching
 - Coach youth – varsity level sports
 - Certificate only 3-5/year

Encourage all majors to get additional certificates as assists in employability and/or provides job while in college

Accomplishments

- Hands on experiences
 - PETE & Exercise Science majors have practicums
 - Exercise Science majors
 - Job shadows in fields of interest
 - Internship (implementing in FA 20)
 - 5 part project
 - Practicum I w/fellow student
 - Practicum II with a client
 - PETE—Home School PE
 - Community children from 5 – 17 years old
 - PETE majors plan lessons/teach lessons/assess their “students”/recorded while teaching and have to reflect/assess their teaching

Accomplishments (cont'd)

- Sport Management
 - 3 + 1 with Valley City State University
 - Majors can complete Bachelor's degree without ever leaving Cheyenne
 - Two years to Associate's at LCCC
 - Year 3 dual enroll taking classes at LCCC & VCSU (online)
 - Year 4 complete online at VCSU or can attend VCSU
- Exercise Science Advisory Committee
 - Continual touches on program
 - Systematic course mods/program mods
 - Internship for Ex. Sci.
 - Courses for Health minor built into program
 - Review of several courses each semester/discussion/modify

Looking ahead

- Part time sequencing of our program
- Expanding articulation agreements:
 - Black Hills State University
 - Montana State
- Additional certifications
 - Sports Nutrition
 - Strength & Conditioning

COMPUTER INFORMATION SYSTEMS AND CYBERSECURITY PROGRAM REVIEW

TROY AMICK

COMPUTER INFORMATION SYSTEMS
PROGRAM COORDINATOR



CIS / Cyber Security Program Overview

Faculty

- 3 FT Faculty
- 1 New FT Faculty position created due to growth (starting Jan 2020)

Facilities

- Andrikopolous Business and Technology 2nd Floor
- Overhaul of class spaces in Summer 2019
- Equipment refresh of $\frac{3}{4}$ of classrooms in Summer 2020

Student Base

- High Growth / High Diversity / Multi-locale

Degree Tracks

- Under review for efficacy and development to match industry feedback

Program Review Experience, Lessons, and Results

Positive Developmental Experience

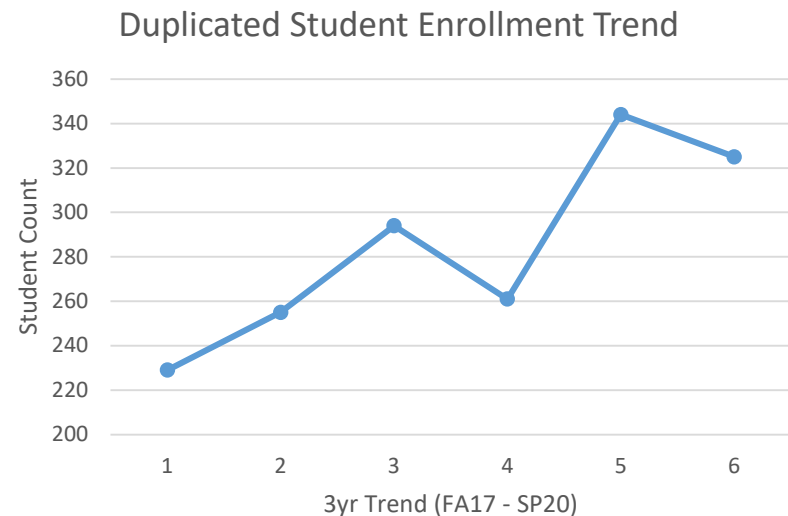
- Defined Expectations
- Identification of Gaps
- Targeted Focus

Lessons Learned

- Poor Prior Tracking of Measurables
- Program Currency to Industry is Lagging
- Student Enrollment Rising at a Rapid Pace

Overall Results

- Academic Advisory Overhaul
- Effective Communication and Involvement of Faculty in Feedback Data
- Continuous Improvement and Innovation in Program Operations



Program Successes prior to Review

Dissolution of Homeland Security Program

- Enrollment increases as Cyber Security came forward in view
- Development of new Cyber Security curricula

Partnership with Microsoft

- Development of the Datacenter Technician Credit Diploma
- Donation of Equipment and materials for hands-on experience

Drive to Industry Certification

- Shifting courses from certification preparation to achievement
- Positive Industry feedback

Physical Overhaul of Classrooms in BT

- Focused on providing more hands-on experiences
- Driven by student feedback and success



Ongoing Program Enhancements Since Review

Microsoft Datacenter Project

- Mobile Datacenter Trainers designed, tested and deployed
- Servers in Lab environments
- Datacenter Racks mock installed in high-traffic area



Cyber Range

- Physical Installation complete
- Virtual Sandbox environment configured and undergoing testing
- First Student Use Spring 2020



CyberCity

- Designed and under construction
- Initial Student Use late Spring 2020



3D Printing Technical Solutions

- Perkins funded 3D printer
- Allows students and staff to custom print server and PC component solutions

Program Enhancements in Planning

NERD Center

- Nested Education, Research and Development
- Overhaul to prior "Fishbowl" experience for students
- Will provide a donation-based repair and diagnostic service to students, faculty and the general public

Revision of Program Offerings

- CCNA Credit Diploma (CD) > Network Administration Credit Diploma (CD)
- Computer Support Specialist CD > IT Operations Specialist CD

Expansion of Program Offerings

- Stackable certifications and degrees
- Cloud and Virtualization Administrator CD
- Data Analytics Systems CD
- Database Administration CD



Student Success and Feedback from the Program Enhancements

MDC Academy Program

3 Graduates of the Datacenter Technician Academy program currently work for Microsoft

- Success stories vary
 - Mother of special-needs child, looking to change careers
 - Young man was working 3 Part-time jobs trying to make ends meet.
 - 19-year-old young man whose academic program was being shuttered, switched and now is the highest income earner in his household.
- Scholarships
 - 16 Fully funded students from underserved demographics
- Student success in certifications
 - Anecdotal Data showed an approximately 20% success rate prior to changes
 - Changes to programs have led to certification rates of up to 93% in one section
- Student Feedback
 - “We learned so much in a small number of weeks that it felt good to know most of it and not feel too stressed out of what we needed to cover.”
 - “I definitely was motivated for the course as I felt more engaged throughout the 8-week course with consistent material that was thought well.”
 - “Live virtual labs helped with some hands-on learning. During class, we could work on labs and ask questions when needed which were answered with detail.”

EQUINE SCIENCE PROGRAM REVIEW

BRUCE NISLEY
AGRICULTURE
PROGRAM DIRECTOR

LANAE MCDONALD
EQUINE STUDIES
INSTRUCTOR



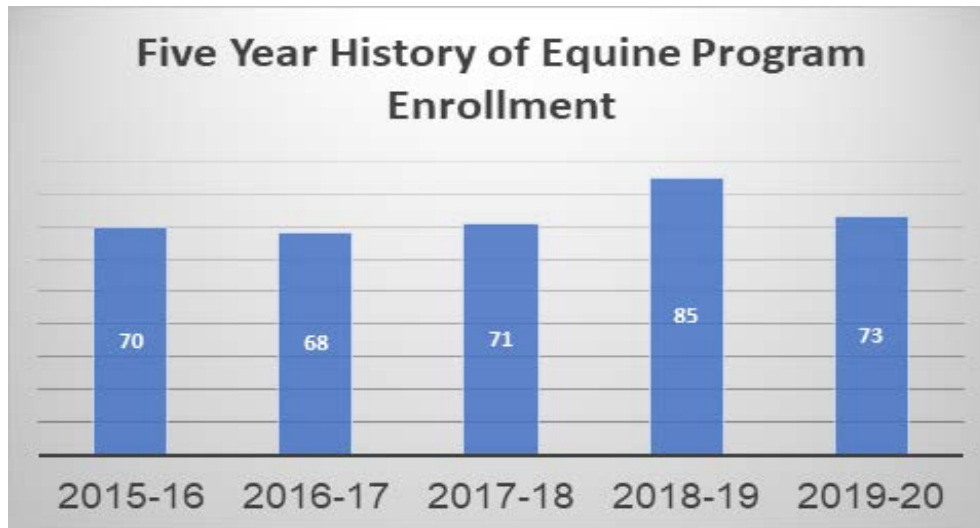
Degrees

- Equine Science A.S.
- Equine Training and Management A.A.S.
- Equine Training C.D.
- Equine Business Management



Teams

- Equestrian Team
- Ranch Horse Team
- Horse Judging Team
- Rodeo Team



Bragging Points for LCCC Equine Graduates

- Complete degree on average in 2.2 years
- 72% are employed in equine industry
- 33% went on to complete advanced degrees
 - 21% of these completed Post-graduate degrees



Nikki Marincic Weaver

- A.A.S. Equine Training and Mgmt.
- Large animal veterinarian starting her own business in Pinedale, WY



Mary Penner

- A.A.S. Equine Training and Mgmt.
- Limited Rider Champion in the National Cutting Horse Association World Show
- Professional Horse Trainer



Challenges Opportunities

- High turnover of equine training instructors
- Arena/facility space and usage is high
- Biosecurity challenges
- High cost per student due to high capital requirements for the program – need increased enrollment while maintaining safe riding practices
- Ag and Equine Master Plan
- Hiring and retention of full-time equine training faculty
- Continued growth and enrollment
- Increased standards for student riding talent and academic excellence
- Essential student experiences



Program Review Lessons

- Equine Advisory Committee
- Program Competencies
- Importance of collecting useful data



HEALTH INFORMATION TECHNOLOGY AND MANAGEMENT (HITM) PROGRAM REVIEW

ANN HOWARD, MHA, RHIA, CCS, CCS-P
HITM PROGRAM DIRECTOR





Brief Program History

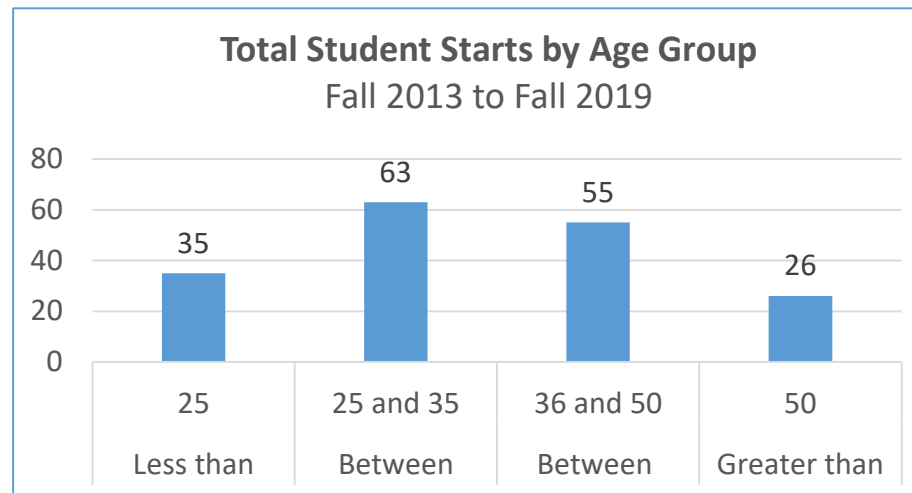
- Program started in the Business Training - Workforce Development division of the campus in fall 2013
 - Training was provided to entities as requested
 - Substantial need in Cheyenne and surrounding areas strengthened the direction of the program
- Health care industry preparing for a change in coding systems to ICD-10-CM/PCS
 - Training developed for Medical Coders – upgraded skills in new coding system
 - Training developed for HIT technicians – implementation of new EHR systems

Program Customized to Demographics

Stacked educational pathway for careers in health care

Degree and Certificates offered:

- Medical Office Essentials Credit Diploma (1 semester)
- Medical Claims Coding Associate Certificate of Completion (3 semesters)
- Associate of Applied Science (4 semesters)



Program Achievements



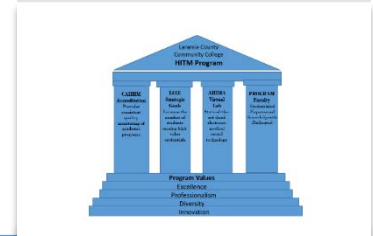
2018

- Enriched curriculum to higher level competencies
- AHIMA Virtual Lab added to advanced coding courses
- Liberal use of EHR Go and 3M Encoder software
- 40-hour field-based professional practice experience (PPE) in final semester
- Dedicated AHIMA-credentialed instructors

2019

- Candidacy Status CAHIIM (Commission on Accreditation for Informatics and Information Management)
- “Top 50” Medical Billing/Coding Programs in nation, (Becker’s Hospital Review)
- Increased new student enrollments in 2018 and 2019 50% from previous years

Areas of Focus for Improvement



Challenges

- Availability of well-qualified faculty as program growth demands
- Marketing cost for national campaign
- Accreditation fees, initial and ongoing
- Insufficient staff to offer all courses every semester

Opportunities

- High potential for awarding increased degrees/certificates
- Increased enrollment from national advertising
- National recognition as a leader in HIT
- High graduation and student satisfaction rates

SURGICAL TECHNOLOGY PROGRAM REVIEW

TRACY PERKO, CST

SURGICAL TECHNOLOGY
INTERIM PROGRAM DIRECTOR





Galaxy Program – 100% participation in AST

100% Satisfaction on Employer Surveys

100% Satisfaction on Graduate Surveys

Obtained 5 new clinical sites

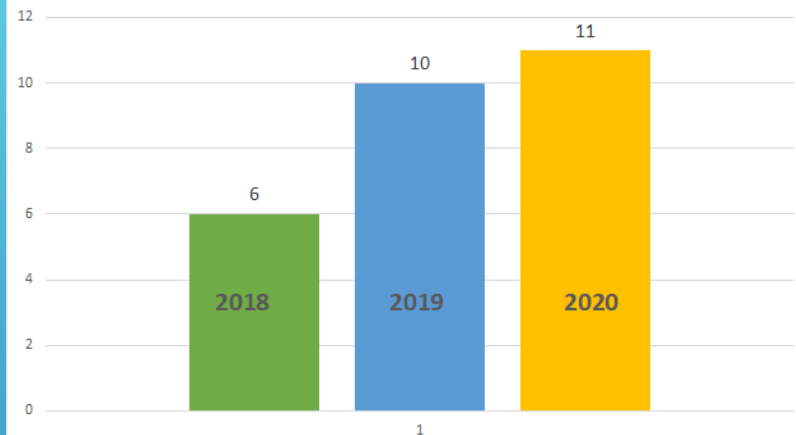
Memorandum of Understanding between
Casper College and LCCC

RECENT ACCOMPLISHMENTS

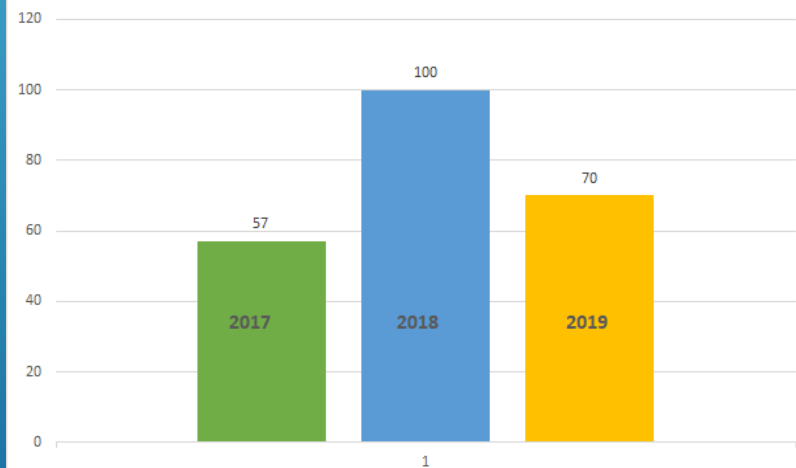
STUDENT STATISTICS



FTE Students In The Surgical Technology Program



Percentage Of Students Who Passed CST Exam And Graduated



New program competencies to reflect
program advisory committee suggestions

New course competencies to reflect
program advisory committee suggestions

New assessment procedures to track student
progress

Online program to track student clinical
experiences

UPCOMING IMPROVEMENTS





Begin tracking gowning and gloving and safe sharps handling for the program's first 2 assessments.



Continue growing the program to help meet the needs of our state.



Increase the number of students passing the CST exam to 100%



Look at housing options for our students statewide

GOALS FOR THE PROGRAM

