Minutes

Computer Information Systems Advisory
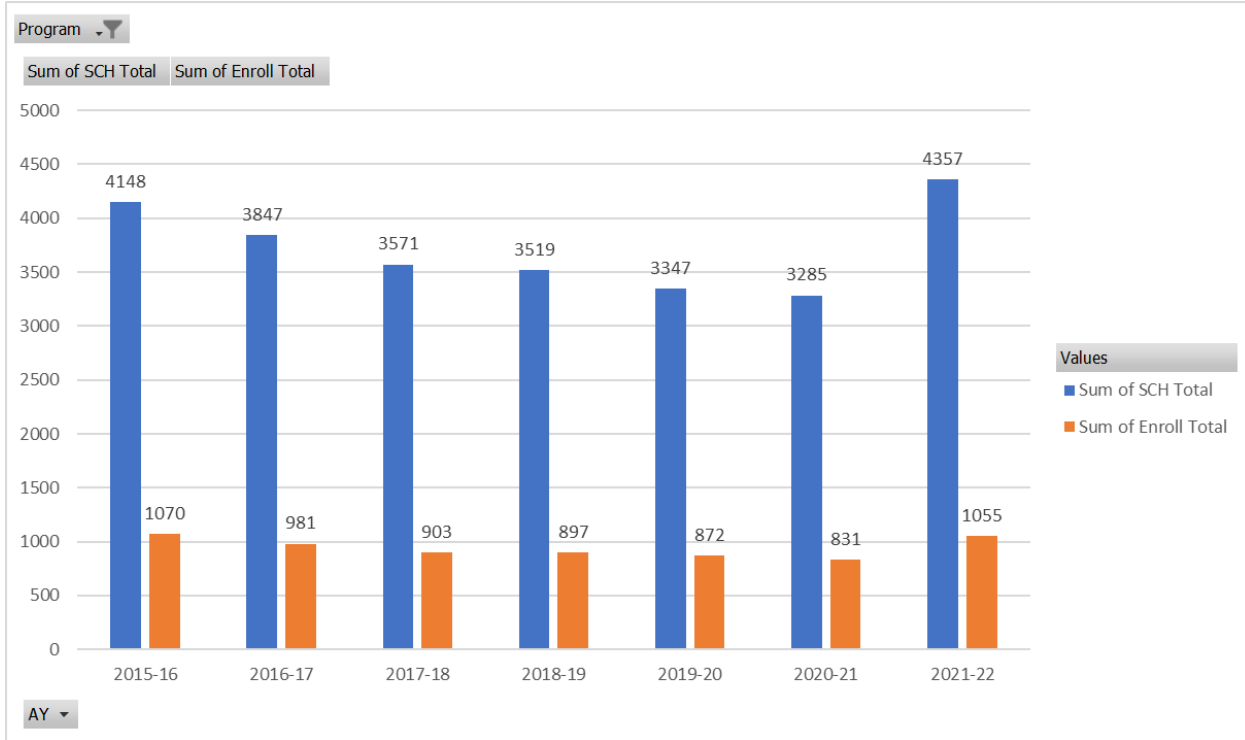
October 27th 2022

Zoom Recording

I. Welcome

II. Members –

    a. Present (In order of roll call) – Christine Gearig, Randy Slain, David Barnes, Cheryl Claussen, Tim Welsh, Amy Bowen, Monica Koning, Heidi Miller, Kathy Stewart, LaJoyce Brooks, Martin Adams, John Burns, Mark Dunneback, Mark Spackman, Pete Anderson, Walter Grech, Tom Klomparens, Melissa Sarenius

III. Call to approve minutes from last meeting March 3rd, 2022 – Approved

    a. Motion to approve minutes brought by W. Grech, 2nd by A. Bowen – Motion passed.

IV. Program updates

    a. Videos were taken of CIS students working in class and interviewed two CIS students about the program and skills they have learned – waiting for Marketing to share the finished product for advertising the CIS programs

        i. To be advertised on social media pages. This is to highlight what we offer at KVCC and how students are using the skills acquired.

    b. Marty Adams ran a Drone's camp over the summer for middle school students

        i. Maximum Enrollment – Recreationally certified, camp went really well.

    c. Looking for Part-time CIS instructors

        i. Skills needed – Linux, A+, Network +, Cisco or Security – Cyber Security. Reach out to C. Gearig if you know anyone interested in position.

V. Perkins Core Performance Indicator - review of program level performance *(this agenda item is included in the Spring semester, committees will be provided with summary data)*

VI. Comprehensive Needs Assessment Input

    a. Satisfaction with student placements
    b. Satisfaction with skill level of graduates
    c. Are there gaps in skills that our students present?

d. Are there gaps in the program? Data analytics?
e. Suggestions for improving student and graduate's success.
   i. There is a need for students to come back to school and finish their programs.
   ii. M. Sarenius - Values relationships with students on worksite and their data analytics program is currently with the IT department.
   iii. A. Bowen – Encourages students to finish their Associate's degree. Have instructors ask students to add those CIS skills to their resumes.
   iv. T. Welsh – Students should be stressing education if lacking experience, they should give jobs their transcripts to show their commitment to their classes.

VII. New business and/or projects

a. Two new Cyber Security courses for CIS
   i. Intro to Cyber Security, 3 credit hours, 3-3-0 (Lecture/Discussion) – CIS programs to take this course. More aligned with teaching fundamentals of Cyber Security.
      1. Motion to send course to Curriculum Board brought by A. Bowen, 2nd by R. Slain – Motion passed.
   ii. Cyber Defense, 3 credit hours, 3-2-3 (Lecture/Discussion/LAB) – Prerequisites – Intro to Cyber Security and CIS 221 Intro to Networks
      1. Motion to send course to Curriculum Board brought by R. Slain, 2nd by A. Bowen – Motion passed.

b. Apprenticeship Opportunities (L. Brooks) – lbrooks@kvcc.edu
   i. CIS Programs for Apprenticeship opportunities. Pre-apprenticeship programs for high school students – Career Launch Kalamazoo.
      • "Learning and Earning" – Allows students to gain experience while they are working on the job.
      • Funding available through the Kalamazoo Promise.
      • Looking to expand apprenticeship opportunities for the CIS programs.
      • Employers have the ability to develop a program based on the company's need.

c. Database discussion (J. Burns)
   i. Relational Databases Courses: CIS 175, CIS 275.
      1. CIS 175 (Database/SQL) – Introduction to Relational Databases.
      2. CIS 275 (Advanced Databases/SQL) – Continued work with SQL Language.
   ii. Non-Relational Databases -
      1. Common Types – Document, Key-Value, and Graph
      2. Differences – Scaling, Query Speed, Community, and Learning specialized

based on database used.

   a. Examples – MongoDB, Apache Cassandra, Apache HBase, Apache CouchDB, Neo4j, RavenDB, Redis, OrientDB.

iii. Should another course be created to cover one or more of these databases?

   1. H. Miller – Usually this is outsourced in businesses or companies, typically expertise isn't in-house anymore. Moving to Cloud based systems.

d. Microsoft Server Certification ending – should we look at Hybrid, Cloud, Unix classes?

   i. Yes – Cloud, Hybrid, and Unix technologies are currently very important.

e. Discuss new and emerging trends in the industry

   i. R. Slain – If a company wants to do business with the Federal Government, they will have to have a formal certification, need to know how to be compliant.

   ii. H. Miller – Machine Learning type of capabilities could be taught in some CIS classes..

VIII. Timelines for recommended action plans

a. Division Updates – M. Dunneback

   i. Enrollment at KVCC for CIS Programs – degrees or certificates?

   ii. Project manager for Apprenticeship & Work-Based Learning – job opportunity at KVCC.

IX. Updates from around the college

a. Internship placement success rate (M. Koning) – mkoning@kvcc.edu

   i. 100 Students currently enrolled for internships for Fall semester. 90% of students continue on with full time jobs after successful completion of Internship.

   ii. Students have to be 75% completed with courses in the program and have a 2.5 GPA to be eligible for a CIS internship.

b. Enrollment information – See Below

X. Next meeting date, time and location

a. March 2, 2023 at 5:30pm – Location TBD

XI. Adjournment – 12:48PM

Total CIS Course Enrollment (includes duplicated headcount) and Student Contact Hours by academic year-

Program

Sum of SCH Total   Sum of Enroll Total

Values
■ Sum of SCH Total
■ Sum of Enroll Total

AY

AY	Sum of SCH Total	Sum of Enroll Total
2015-16	4148	1070
2016-17	3847	981
2017-18	3571	903
2018-19	3519	897
2019-20	3347	872
2020-21	3285	831
2021-22	4357	1055

Total CIS Course Enrollment (includes duplicated headcount) and Student Contact Hours isolated for Fall term only; includes Fall 22 thru 16-SEP-22 registration-

Sum of SCH   Sum of AE

Course Enrollment (Orange) and SCH Generation (Blue) by Term 2015-2021 & Fall 22 (16-SEP)

FALL	Sum of SCH	Sum of AE
2015	1943	496
2016	1851	466
2017	1522	394
2018	1475	384
2019	1488	390
2020	1278	327
2021	1588	403
2022	2245	549

Term   Year   + −