3. Assist the Department Chair and Division to add a noncredit course in CourseLeaf to a new noncredit Certificate of Competency to the Ventura College Catalog;

4. Create a noncredit Certificate of Competency which includes Math N101 and other appropriate noncredit course(s) in CourseLeaf that will allow for enhanced funding from the CDCP, to offer quality programs to our students especially those transferring with a math related major who need a strong foundation in math before transferring;

III. **Prior to the start of Sabbatical Project (January – May 2022):**

1. Several items from my components listed were completed prior to my sabbatical leave. By May 2022, items 3 and 4 (above) were already implemented by the Math Department by combining IDS N100 with Math N113 to create a non-credit Mathematics Readiness Certificate of Competency. As it reads in the college catalog 2022-2023, the Mathematics Readiness Certificate of Competency is designed to facilitate learning in critical thinking and fundamental math skills, offering students a noncredit option to learn fundamental mathematical skills, including operations on integers or algebraic expressions, graphing lines, factoring polynomials, and solving systems of linear equations. Students will work through individualized learning pathways that will focus on supporting building mathematics skills for their specific career and educational needs and interests. The program is designed to be completed in a single semester and can be taken simultaneously with other credit-based and noncredit courses at the College.

   i. Non-credit Mathematics Readiness Certificate of Competency
   REQUIRED CORE (700-227.5 hours):
   MATH N113 Math Readiness for College Success   52.5
   IDS N100   Supervised Tutoring   17.5 175.0
   Total Hours   70 227.

2. Prior to starting the Sabbatical leave in August 2022, Ali Fazelpour (Full-time Computer Science Professor) and I met to discuss our goals and the curriculum we decided to create for items 1 and 2 listed in the components of my Sabbatical Project. At our initial meeting we decided to focus on the following areas:

   1. Create a Linux course CS V47 (renamed CS V45)
   2. Update 3 courses for C-ID approval – CS V11, CS V13, CS V19
   3. Create an intro to computer programming/IT careers course
   4. Create a course for IT fundamentals
   5. Create 3 Cisco courses
   6. Create 2 Cloud Computing Courses

During to my Sabbatical leave, CS V47 (renamed to CS V45) was approved by Curriculum Committee in August 2022. I helped to update this course, as well as update and submit the 3 courses CS V11, CS V13, and CS V19 to achieve C-ID approval.

3   During my Sabbatical (August 2022 – December 2022)

In August 2022, Ali and I met to discuss the current courses and what to create, based on our conversations, we decided to create 7 additional courses: CS V09 Principles of Computing, CS V41 IT Fundamentals, CS V51 Cloud Computing and Virtualization Fundamentals, CS V52 Cloud Security Fundamentals, and the 3 Cisco Networking courses, CISCO CCNA Networking I, II, and III. The goal was to have the courses approved first and then create an associate degree in CS and/or certificates to offer more options for our students. Another goal was to draw in more Information Technology professionals and to start offering IT courses in Cloud Computing.

We also decided to have an entry point for students who want to major in computing related careers such as Information Technology, Computer Programming, and Computer Networking. Over the next 5 months, I investigated courses at other colleges offering similar courses and through exchanges with other professors at other schools and VCCCD faculty and staff, I created the curriculum for 4 NEW courses: CS V09 Principles of Computing, CS V41 IT Fundamentals, CS V51 Cloud Computing and Virtualization Fundamentals and CS V52 Cloud Security Fundamentals.
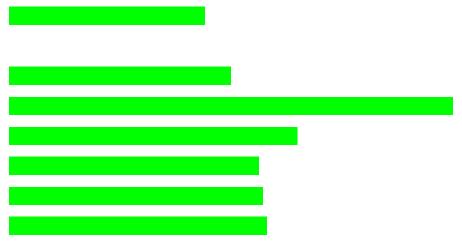
I also entered the SLOs in the SLO database for the review cycle. Ali had already created the 3 Cisco Networking courses and CS V45 Linux Fundamentals prior to my Sabbatical leave. Additionally, Ali and I met regularly on a monthly basis and I helped to keep adrift of the curricular changes needed for CS curriculum through exchanges with the curriculum committee.

As a result of our work, the following course offerings in CS have doubled (pending full district approval of all courses). See the list at the end of this document with course descriptions of the NEW courses.

4   Main Accomplishments of my Sabbatical (August 2022- December 2022)
   i.   Created a vision for Computer Science offerings and programs and the future of the discipline through discussions with Ali Fazelpour

  ii. **Updated all C-ID and related curriculum changes for current CS courses**

iii.

NEW CS COURSES COURSE DESCRIPTIONS:

This course is an introduc on to compu ng systems with an emphasis on computer science applica ons including computer hardware, data storage, opera ng systems, networking, the World

This course provides an introduction to cloud computing including cloud deployment and service models, cloud infrastructure, cloud backup and storage, and key considerations for migrating to cloud computing. Students will u