

Virtual Labs Regional Project

- Students can easily access Virtual Labs and complete very sophisticated technical administration tasks from anywhere since the equipment is 100% remotely online.
- 24x7 technical support for faculty and students
- Faculty can focus on Teaching and clarification for students instead of figuring out why a configuration did not work for the student.
- Time saving is tremendous because students can now do advanced labs that we “Dry Labbed” or read about because they were too complicated or advanced and required specialized equipment.
- The Labs include difficult to acquire and setup environments.
- Using VERY Sophisticated labs as found in Practice-labs would take weeks to setup and many complications so it’s just currently not done.
- This modern and professional environment mimics large enterprise organizations.
- Faculty can provide modern training anytime and anywhere
 - LMS integration
 - Automated student fulfilment
 - Student tracking and reporting
 - Custom or off the shelf courseware
 - On-demand Labs
 - Cloud Based

Moorpark Summer session 2018 Prototype Launch with Practice-Labs (<https://practice-labs.com/Academic.aspx>) using 17-18 SWP regional funding - Instructor Ed Garcia, Moorpark College, Computer Network Systems Engineering

- Network+ with 40 students (Normally 30) have already increased Cap to 40. + 60%.
- Security+ with 40 students (Normally 30) have already increased Cap to 40. + 60%
- These courses used to be capped at 25 so the increase has been 60% Cap now raised.
- Currently 40 enrolled in Security + and 38 enrolled in Network+ for summer. Plan to increase Cap again before summer session to 45 as regional labs are on-demand and not limited to seats or physical equipment.

- Students will still be able to come in to classroom and access and touch real equipment but my equipment bank can now be a lot smaller and **access has increased from 4 hours per week to 7X24.**

Additional Feedback from Instructor:

- The New CSA Cyber Security Analyst is a major new course for Moorpark and I cannot imagine trying to find the time to setup labs while also developing new AS Degree in Cyber Security.
- My overall time savings in setting up labs will be 40% at least and I can now focus on training in those advanced areas which we never could setup due to time and complications involved.
- I would say the savings will be about \$50,000 per year initially and will increase.
- Lastly, I really believe this is a new Digital divide because the training is at a whole new level of sophistication and student confidence and experience will be off the charts.
- The Labs they are doing are really advanced and align very well with Enterprise skills.

I am requesting in 18-19 SWP regional budget the continuation of \$300,000 (\$37,500 per college) for support of Virtual Lab operations and expansion across the region.

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