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POS-63 Online lab sections with the IOLab and remotely operated experiments in first year physics

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We report on our implementation of online lab sections of PHYS 1100, a one-semester, algebra based course with separate classroom and lab components at Kwantlen Polytechnic University. Since January 2017, we have offered online as well as on-campus lab sections, which students take in conjunction with a class, which itself is available on-campus, online, or partially online. The online lab activities consist of seven experiments using kits based on the IOLab and two experiments that are remotely operated through the internet. The lab kits are loaned out from the university library and the remote experiments use the RWSL facility at North Island College. Topics parallel those in the on-campus labs. Each lab is preceded by a pre-lab assignment designed to equip students with theory, orientation and analysis tools required for the experiment. Student lab reports are heavily guided early in the semester but become progressively freer in format, with a corresponding progression in student expectations. Student outcomes and lessons learned for continued implementation will be discussed.

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