

**Virginia Western Community College**  
**ITP 258**  
**Systems Development**  
**Project**

**Prerequisites**

ITN 154, CSC 221, ITN 170

**Course Description**

Provides instruction in application of life cycle system development methodologies using a case study which incorporates feasibility study system analysis, system design, program specification, and implementation planning. Course project assignment(s) will have students perform as members of system development teams.

**Semester Credits: 3    Lecture Hours: 3 Lab/Clinical/Internship Hours: 0**

**Required Materials****Textbook:**

None

**Other Required Materials:**

Raspberry Pi, monitor, mouse, and Keyboard

Computer with internet access sufficient to perform all coursework including watching videos, completing and submitting assignments online

**Course Outcomes**

**At the completion of this course, the student should be able to:**

- Describe the SLDC as it applies to software, and systems, development.
- Discuss the pros and cons of popular lean development methodologies.
- Utilize SCRUM in the development of team deliverable products.
- Develop software and databases, and test and secure custom designed Internet of Things devices as part of a team.
- Demonstrate effective planning and communication within a team.
- Maintain project artifacts to articulate work, scheduling, challenges, and successes.

**Notes to Instructors**

- This course functions as a capstone course for all IT degree programs. As such, projects should be very challenging and draw from all IT curriculum. Typically, student teams are challenged to present project ideas that meet these requirements.
- Projects should be completed by a team of 3 – 5 members
- Heavy focus should be placed on effective teamwork and communication