I am currently a junior student majoring in computer science. During my time at New Paltz, I have taken courses such as Computer 1, Computer Science 2, Computer Science 3, Calculus 2, Digital Logic, Language Processing, Assembly Language and Computer Architecture, Discrete Mathematics for Computing, Object Oriented Programming, and Operating Systems. As well as Web Programming, I am also taking Discrete and Continuous Computer Algorithms and Software Engineering in this semester. Last semester, I created a python game that incorporates hamiltonian circuits from my Discrete Math Class. It is a game in which the user stands at a point or selects a point to start from and then must navigate through a Hamiltonian circuit. Each time they collect the treasures, they advance to a more rigorous circuit. If they get caught by a boss/enemy, they are brought back to the same circuit and must restart the level to advance to the next level. There are 3 levels, an option to have background music being played in the background, and an option to choose which character you want to play as. I am in the process of completing my senior thesis involving computer science, equity/equality, gender gap, and the social issues that prevent children from being exposed to computer science at an earlier age/introducing cs to school curriculums.

I am certain the skills and concepts that I master in this course will truly help me in the long run whether it's in terms of career opportunities, building onto my resume, or designing better websites for my ecommerce business I launched at the start of the year. I was able to self-teach myself the basics of SQL, HTML, CSS, javascript, and jQuery this summer. Along with AJAX and PHP, I find these techniques and languages necessary for more efficient web application developments. PHP, itself, is used in almost half of all website creations. These techniques are getting tremendous industry momentum and are essential for anyone interested in going far in computer science. I am hoping this course gives me some food for thought in terms of potential career choices.