

Semester 1 TR551 - Foundation



Through the use of online tutorials, guided instruction and problem solving, students will build robots to suit particular challenges using EV3 Lego. They will then program the robot using drag and drop to complete the challenges. Students will learn problem solving skills and patience through trial and error to achieve the desired outcome. A variety of tasks will be given over the semester.



Assessment

Assessment will be completed in class. Students will complete a variety of tasks with a focus on one major challenge per unit involving a detailed design write up.

Semester 1 TR651



Through the use of online tutorials, guided instruction and problem solving, students will build robots to suit particular challenges using the new EV3 Lego kits. They will then program the robot using drag and drop to complete the challenges. The challenges will become more in-depth and will involve more sensors in combination as well as motors that allow the robots to pick up and place objects.



Assessment

Assessment will be completed in class. Students will complete a variety of tasks with a focus on one major challenge per unit involving a detailed design write up.

Semester 2 TR652



Through the use of online tutorials, guided instruction and problem solving, students will build robots to suit particular challenges using the new EV3 Lego kits. They will then program the robot using drag and drop to complete the challenges. The challenges will become more in-depth and will involve more sensors in combination as well as motors that allow the robots to pick up and place objects.



Assessment

Assessment will be completed in class. Students will complete a variety of tasks with a focus on one major challenge

Semester 2 TR752



Through the use of online tutorials, guided instruction and problem solving, students will build robots to suit particular challenges using the new EV3 Lego kits. They will then program the robot using drag and drop to complete the challenges. The challenges will become more in-depth and will involve more sensors in combination as well as motors that allow the robots to pick up and place objects.



Assessment

Assessment will be completed in class. Students will complete a variety of tasks with a focus on one major challenge