

Robotics III – Syllabus 2013 – 2014

Course Description:

By the end of the semester, students will be able to design, build, program, test, and modify their Robots to complete specific multi-stepped challenges.

Course Outline:

❖ 1st Six Weeks

- After a brief review of Robotics I and II, students will focus on designing, building, and programming more complex Robots.
 - Organization
 - Research Real World Robots
 - Begin Advanced Programming and Data Logging with the Motors and Ultrasonic Sensors
 - Complete 2-3 Robot Challenges Independently

❖ 2nd Six Weeks

- Students will continue to design, build, and program more complex Robots that utilize various sensors.
 - Organization
 - Continue Advanced Programming and Data Logging with the Color and Temperature Sensors
 - Complete 2-3 Robot Challenges Independently

❖ 3rd Six Weeks

- Students will design, build, and program more complex Robots that utilize various sensors.
 - Organization
 - Continue Advanced Programming and Data Logging using multiple sensors
 - Design, Build, and Program Robots of their choice
 - Complete 2-3 Robot Challenges
 - Students will have the opportunity to showcase their Robot at the **Robo-Olympics** Evening Event.

Grading Policy:

- Grades are calculated by averaging the following weighted categories:

○ Participation	20%	○ Problem Solving	15%
▪ Daily Sponges		▪ Daily Problem Solving Log	
▪ Daily Participation Points			
○ Robotics Notebook	15%	○ Performance Assessment	20%
▪ Folder Organization		▪ Challenge Demonstration	
▪ Notebook Quizzes		▪ Teacher/Student Assessment Conferences	
▪ Final Notebook Check			
○ Class Assignments	20%	○ Proficiency Assessment	10%
▪ Daily Work/Assignments		▪ Robotic Skill Mastery Assessment	
▪ Challenge Reports			
- Work may be turned in late, by the end of the grading period, for partial credit.
- Grades will be calculated in accordance with JCPS standard grading scale:

○ 93 – 100%	A
○ 86 – 92%	B
○ 79 – 85%	C
○ 70 – 78%	D
○ Below 70%	U

Classroom Expectations:

- ❖ Students are expected to:
 - Come to class on time and prepared to learn everyday.
 - Listen and Follow adult directions.
 - Demonstrate respect towards self and others.
 - Treat class materials respectfully.
 - Follow the Meyzeek Code of Conduct located in the Student Agenda.
 - Sign and adhere to the LEGO Robot Kit Acceptable Use Policy and Contract. The Contract must be signed by both the parent and student before Robot Kits are issued to students.
 - **Students need 6 AA Batteries, flash drive, and a pair of Headphones for the computers.**

Discipline Procedures:

- Warning (verbal, silent, or whole class)
- Private Student/Teacher Conference
- Student may be **Transferred (Clipped)** to another classroom to complete an alternative assignment for that class period.
- **R.A.D – Detention (Related Arts Detention)**
 - Held every Wednesday from 2:25 to 2:55 in ISAP room.
 - Parents are notified & must sign the orange sheet by the assigned day or student will receive a referral. Students will use this signed form as their “pass” into detention.
 - Students who “skip” detention will receive a referral to their grade level administrator.
- Serious offenses may require the notification of grade level administrator and/or removal from class.

If at any time you have questions about your child’s progress or the assessment of your child’s progress, please contact me.

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 Robotics Teacher 6th, 7th, and 8th Grade
 Meyzeek Middle School
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 502-485-8299

- ❖ Our class uses the following items on a daily basis all semester. Your donations will be most appreciated.
 - 6 AA Batteries – Need for Back-up Power
 - Kleenex
 - Paper Towels
 - Notebook Paper
 - LEGO Parts and Pieces

Robotics III Syllabus 2013-2014 --- Ms. Johnston **Signed Syllabus Due By _____**
 Please sign below to acknowledge that you have read the **Robotics III Syllabus**

Student Name _____ Grade/Team _____

 Parent/Guardian Name (Print)

 Parent/Guardian Signature

 Day Phone Number

 Evening Phone Number

 email address