Course Description:
This course is a basic introduction to technology and its application in the everyday world. Students will study topics and content that can be transferred to their lives and to other elective courses that are offered here at North High School. Topics that will be introduced are mobile app design, programming and robotics, computer-aided design, and basic electronics.

Instructional Philosophy:
In order to function and live in the 21st century, you should have some basic understanding of technology and how to utilize that technology for your benefit. Every job and career will have some use for computers, mobile devices, and robotics. This course will show you the possibilities that are available to you in the field of technology, programming and robotics.

Major Units of Study

Mobile App Design using App Inventor
Computer Aided Design/CAD using Autodesk Inventor
Robotics using VEX IQ robots
TBD

Class Rules and Expectations:
Students should be in their assigned seat when the bell rings.
Students will come to class prepared to learn with materials needed for class.
Students will complete all assigned work to their best ability.
Students will take responsibility for making up all work when absent.
Students will respect their classmates and help create a positive learning environment.

Texts:
None

Assessment
Formative Assessment: activities, class observations, exit slips
Summative Assessment: projects, semester exams
OPS Secondary Grading Practices
All coursework and assessments are judged based on the level of student learning from “below basic” to “advanced.” This course will provide multiple opportunities to achieve at the “proficient” to “advanced” levels. Students are evaluated based on a proficiency scale or project rubric. Proficiency scales for this course are available upon request (teacher will identify location such as portal, teacher website, attached, etc.)

There are three types of coursework

- **Practice** – assignments are brief and done at the beginning of learning to gain initial content (e.g., student responses on white boards, a valid sampling of math problems, keyboarding exercises, and diagramming sentences, checking and recording resting heart rate). Practice assignments are not generally graded for accuracy (descriptive feedback will be provided in class) and are not a part of the grade. Teachers may keep track of practice work to check for completion and students could also track their practice work. Practice work is at the student’s instructional level and may only include Basic (2) level questions.

- **Formative (35% of the final grade)** – assessments/assignments occur during learning to inform and improve instruction. They are minor assignments (e.g., a three paragraph essay, written responses to guiding questions over an assigned reading, completion of a comparison contrast matrix). Formative assignments are graded for accuracy and descriptive feedback is provided. Formative work may be at the student’s instructional level or at the level of the content standard. Formative assessments/assignments will have all levels of learning – Basic (2), Proficient (3), and Advanced (4), which means that for every formative assessment/assignment, students will be able to earn an Advanced (4). Teachers will require students to redo work that is not of high quality to ensure rigor and high expectations. The students score on a formative assessment that was redone will be their final score.

- **Summative (65% of the final grade)** – assessments/assignments are major end of learning unit tests or projects used to determine mastery of content or skill (e.g., a research paper, an oral report with a power point, major unit test, and science fair project). Summative assignments are graded for accuracy. Summative assignments assess the student’s progress on grade level standards and may not be written at the student’s instructional level. Summative assessments/assignments will have all levels of learning – Basic (2), Proficient (3), and Advanced (4), which means that for every formative assessment/assignment students, will be able to earn an advanced (4).

<table>
<thead>
<tr>
<th>OPS Grading Scale</th>
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<tbody>
<tr>
<td>A</td>
<td>3.26 – 4.00</td>
</tr>
<tr>
<td>B</td>
<td>2.51 – 3.25</td>
</tr>
<tr>
<td>C</td>
<td>1.76 – 2.50</td>
</tr>
<tr>
<td>D</td>
<td>1.01 – 1.75</td>
</tr>
<tr>
<td>F</td>
<td>0.00 – 1.00</td>
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</tbody>
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**Missing Coursework**
Work not turned in at all will be recorded in Infinite Campus (district grade book) as an M for missing which calculates to a score of zero.

**Redoing/Revising Coursework**
Students may be allowed redos and revisions of coursework for full credit during that unit of study based upon the teacher’s professional judgment and evidence collected throughout the unit. Scores for student work after retaking, revision or redoing work will not be averaged with the first attempt at coursework or assessment, but will replace the original student score.

**Late Coursework**
Students are expected to complete coursework on time. Late coursework may be accepted for full credit until
the end of the unit based on the teacher’s professional judgment and evidence collected throughout the unit. Accepted late work will not result in a reduction, and the M (missing) will be replaced with the score earned by the student. The teacher or school may make exceptions depending upon student circumstances (such as prolonged absences due to illness).