

# Metropolitan Business Academy

## RESEARCH, DESIGN, AND DEVELOPMENT (INFO-TECH R&D) Course Syllabus

### Teacher Contact Info:

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 After School Hours: Tues or Thurs - By Appointment - 2:15 - 3:30

### Course Overview:

Academic skills, communication, creative thinking, and problem solving are developed through the completion of a comprehensive team-based project. Each student team utilizes communications technologies and multimedia software to research, design, develop, and present a solution. Students form a technology company and assume roles in the company to deliver their solution to an innovation challenge. The educational emphasis is placed on digital media, innovation, the development of the completed project and intellectual property management. Students create an online product that is relevant to the real-world.

### Course Standards: (list - Common Core and 21st Century Competencies)

List out your course standards (without the indicators) & 21st Century Competencies

### Performance Task Chart:

Title of Performance Task	Description of Performance Task	Content Standards met by Performance Task (numbers)	21st Century Competencies met by Performance Task (numbers)
Explore web-based design and software used to produce digital media. Understand software uses and purposes.	Operate Apple computer, basic keyboard, and mouse, saving, opening the application in multiple using file formats. Basic use of type, color to produce screen page layouts.	70-85	Accessing and Analyzing Information 70-85 Creativity and Innovation 70-85
Complete research and development of digital media design problem-solving. Resulting in innovated solutions	Conceive, design and development relevant digital media content that is informative, impactful and purposeful.	70-85	Problem Solving and Critical Thinking 70-85 Accessing and Analyzing Information

For more information on our school wide policies about Mastery Based Learning and Grading, please reference the Metropolitan Business Academy Student-Parent Handbook and the Guiding Principles of Mastery Learning and Mastery Grading at [www.metropolitanbusinessacademy.org](http://www.metropolitanbusinessacademy.org).

presented.			70-85 Creativity and Innovation 70-85 Initiative, Leadership and Accountability 75-85
Conceive, produce an online product.	Final results show a well-designed web site, blog, app. Or game, video or animation that expresses a clear purpose and message.	70-85	Problem Solving and Critical Thinking 70-85 Accessing and Analyzing Information 70-85 Creativity and Innovation 70-85

**How you will be graded explanation** Initiative, Leadership and Accountability

Explain/list types of work done in class (ex. Homework, journals, etc)

<b>Mastery Language Abbreviations</b>	<b>Mastery Language</b>	<b>Progression to Meeting Standard</b>	<b>Standard Grading Equivalent</b>
XE	Exemplary	Exceeds Standard with Distinction	100
CO/XE	Competent/Exemplary	Exceeds Standard (revise for exemplary)	93
CO	Competent	Meets Standard (revise for exemplary)	85
EM	Emerging	Approaches Standard (needs revision)	70
NY	Novice	Not Yet (needs revision)	60
NE	No Evidence	No Evidence of Work Yet	50

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## **Examples of Additional Helpful Items (not necessary - optional for individual teachers)**

### Software Applications:

Adobe Dreamweaver - HTML5/CSS3 - Web Site Design

Adobe Photoshop/Illustrator

Adobe Premiere/After Effects

MIT Inventor - App Design

MIT Scratch \_ Game Design