

# **Brighton High School *Digital Multimedia Program***

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## **Programming Game Development 9<sup>th</sup> – 12<sup>th</sup> # 66075/66076**

What is computer science and cutting edge technology? Learn how to think like a computer by understanding what technology is and how to apply it to everyday life. Learn multiple programming languages to understand concepts of computer science by creating games using simple blocks of code, syntax error language and 3D/first person. Experience how to create an App and compete with students nationwide. Create games using motion sensing input devices. Program robots to sense, draw and move through obstacles. Program a game to use circuits to turn everyday objects into touch pads. Code a raspberry Pi (not food!) to learn about hardware hacking. Females have multiple field trip opportunities including Digital Divas and GirlsEncoded.

**4<sup>th</sup> year math credit & ½ 2<sup>nd</sup> year world language requirement      Next Suggested Class: Web Design**

## **Web Design 9<sup>th</sup> – 12<sup>th</sup> # 66073/66074**

Students will learn how to create and maintain websites and how to integrate graphics, sound and user interaction. Students will use HTML, Javascript, CSS, and Dreamweaver web design software to create effective, functional websites. Students will use Adobe Creative Suite software to design logos and graphics with Illustrator and change and create images with Photoshop. Students will also be introduced to animation software. The use of design elements and principles will be used to properly communicate ideas and enhance layout of their work. Students will create a personal portfolio website, learn how to publish to a server and participate in a Photoshop contest.

**VPAA credit & ½ 2<sup>nd</sup> year world language requirement      Next Suggested Class: Social Media**

## **Social Media 10<sup>th</sup> – 12<sup>th</sup> # 66057/66058**

Become a social media strategist – one of the hottest career trends in technology and marketing. This class will use many social media tools to promote and explore the purpose of social media as a marketing tool. Students will create and implement a social media campaign for a local business to help their business grow and succeed. This class is comparable to an Internship. Not only will students have the opportunity to apply what they learn in class this also gives them the opportunity to work professionally with a business. Field trips are involved in this course to view businesses using social media.

**VPAA credit & ½ 2<sup>nd</sup> year world language requirement      Next Suggested Class: Programming**

## **NEW 16-17 AP Computer Science Principles 11<sup>th</sup> – 12<sup>th</sup> Yearlong**

This course covers the fundamentals of computer science and its impact on people, society, and innovation. The purpose of this course is to design and implement ideas using technology to make a difference. Students will use creativity, algorithms, abstraction, elementary logic, generating and analyzing computational artifacts, digital security and privacy, computer networks, data encoding, creative and ethical computing, and use a visual programming language. Some projects include developing mobile phone applications, games, and tools that can help others. No prior experience of computer science or programming is necessary.

**4<sup>th</sup> year math credit & 2<sup>nd</sup> year world language requirement**

# *Digital Multimedia Program*

Program Information: <http://brightondigitalmultimediaprogram.weebly.com/>

Follow on Twitter: #BHSDigitalMedia Contact: Michelle Costa [costam@brightonk12.com](mailto:costam@brightonk12.com)

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VPAA CREDIT

4<sup>th</sup> YEAR MATH CREDIT

2<sup>nd</sup> YEAR WORLD LANGUAGE REQUIREMENT

AP CREDIT

EARN **COLLEGE** CREDIT - *complete full program and receive*

Washtenaw Community College

Ferris State University

Oakland Community College

Baker College

Davenport

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## DIGITAL MULTIMEDIA **CLUB** – Tuesday's in B-8

- Learn Professional **Design Software**: Dreamweaver, Photoshop, Illustrator
- Create Dynamic Websites using HTML, CSS, Javascript
- Create a Personal Portfolio
- Participate in Photoshop **Competition**
- Multiple **Field Trips**
- Digital Divas and GirlsEncoded **Field Trip**
- Work with **local businesses** to create a social media campaign
- Guest **Professional Speakers**
- Learn Multiple Programming Languages & Computer Science concepts
- Create first person games similar to a video game and games for young kids to play, motion sensing devices, and circuits to make games work like a touch pad
- Program robots to sense, draw, and move
- Explore using Raspberry pi's to learn hardware hacking
- Create Android Apps and participate in a nation-wide **competition**