

Henry Ford Academy: School for Creative Studies

485 W. Milwaukee Street

Detroit, MI 48202

Phone: 313-481-4000

Fax: 313-481-4001

School District Code: 82703

Intermediate School District: Wayne County RESA

Technology Plan Web Site: www.hfli.org/scs/abouthfascscs/index.cfm

Technology Plan

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Technology Plan Contact Person

Glenda Chaney

Technology Coordinator

Phone: 313-244-4876

Fax: 313-481-4001

gchaney@hfascscs.org

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School Overview

Henry Ford Academy: School for Creative Studies (HFA: SCS) is located in the award-winning College for Creative Studies A. Alfred Taubman Center for Design Education in Detroit's New Center Area, providing students with the unique opportunity in Detroit to attend middle and high school on a world-class college campus. In the 2011-12 school year, the student population contains grades 6-11, which will be expanded to grades 6-12 in the 2012-13 school year. There are currently 694 students and 40 teachers.

HFA: SCS Mission Statement

Henry Ford Academy: School for Creative Studies will be an exemplary school that prepares all students for college and career success. We will be deeply embedded in the community and become a key element in the ongoing revitalization of the city of Detroit.

Henry Ford Academy: School for Creative Studies is a technology-rich school. We are focused on providing a college preparatory education employing Design Thinking methodology. Our curriculum is designed to cross disciplines so that students learn to create employable solutions to real-life needs. Students learn to use technology in a variety of ways, so that they can prepare to use the tools that will be available to them during their college education, and beyond. Examples of student projects include:

Public Service Announcements
Videos
Excel Spreadsheets
Podcasts

Graphic Design
PowerPoint and Keynote Presentations
Digital Photography and Photo Editing
Animation

Technology is used throughout the District for communication and administration. Each staff member has an office extension equipped with voice mail, as well as a cell phone equipped with voice mail and text capability. Each classroom contains a ceiling mounted digital projector and speakers, enabling teachers to employ visual and audio/visual tools in daily instruction. Also available are digital cameras, digital video cameras, document cameras, and classroom audio projection systems. The gymnasium is equipped with a full audio/visual system. Several classrooms are equipped with Promethean whiteboards.

There are three computer labs, each equipped with 26 student desktops, a teacher desktop, and a ceiling projector. The teacher desktops include Apple Remote Desktop, which allows teachers to view and assist students directly.

Infrastructure, Hardware, Technical Support and Software

The network at HFA: SCS is comprised of an Apple Xserve Cluster containing seven servers. Each server is designated to handle specific tasks, such as hosting users' home directories and printing. The entire school is configured for network connection via both Ethernet cable, and wireless. The telephone system uses VOIP technology.

The HFA: SCS network runs on the Mac OS X platform. All teacher and student computers are Macbooks and iMacs, therefore all software purchases for teacher and student use are obtained for the Mac OS X operating system, and tested for interoperability prior to the release of new configurations (images).

Technical support is requested through the Technology Coordinator, who assists directly, or coordinates repairs/support when additional needs exist.

The Goal of the HFA: SCS Technology Plan is to embrace and achieve the MDE Technology Goals, as listed in the 2010 State of Michigan Educational Technology Plan Goals:

The five goals of the 2010 Plan are:

- 1. TeachingforLearning:** Michigan students will have meaningful technology-enabled learning opportunities, including assistive technologies and virtual learning opportunities that develop proficiencies as defined by the Partnership for 21st Century Skills (21stcenturyskills.org), required to become lifelong learners, including ethical, safe, and discerning behavior while using information and media technology.
- 2. Leadership:** Michigan Department of Education (MDE) will continue to provide leadership for educational technology by expanding and developing transformative learning environments that increase student academic achievement.
- 3. Professional Learning:** Michigan educators will have competencies in 21st Century Skills, especially information and media fluency, to enable the transformation of teaching and learning to improve student achievement.
- 4. School and Community Relations:** Michigan school board members, parents, and community members will understand the impact educational technology, including virtual learning options and data have on informing and improving instruction. Schools, parents, and community members will be able to access and use school- level data to make meaningful decisions related to the education of all Michigan children.
- 5. Data and Information Management:** Michigan educators will have access to data for effective classroom decision making and school improvement planning through an integrated local and statewide decision support system, and have access to professional learning opportunities to develop competencies in data-driven decision making.

The following five sections will describe how the HFA: SCS Technology plan addresses the above-stated goals.

1. *Teaching for Learning:* Michigan students will have meaningful technology-enabled learning opportunities, including assistive technologies and virtual learning opportunities that develop proficiencies as defined by the Partnership for 21st Century Skills (21stcenturyskills.org), required to become lifelong learners, including ethical, safe, and discerning behavior while using information and media technology.

In accordance with the Children’s Internet Protection Act (CIPA), HFA: SCS has Internet filtering. We are currently using pfSense, to block inappropriate content.

Our students are learning to incorporate technology in projects across disciplines. Students are learning to collaborate with one another to produce video projects that demonstrate their grasp of academic subject matter. They have also used Skype to expand the extent of collaboration possible between grade levels here within our building, and with outside participants.

Specific projects encompassing the use of technology include:

- Wiki Spaces in the 7th grade Social Studies curriculum
- An on-line portfolio used by the 8th grade
- Geometer Sketchpad used by the 9th grade

Future plans include implementation of audio/video production hardware and software to provide students with the opportunity to gain increased college readiness in using digital media.

Our goal at HFA: SCS is to introduce tools that engage students, and therefore lead to increased absorption of academic content. As stated in the State of Michigan Anchor Standards for Writing, our goal is to use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.

Project-based learning is the primary learning modality used at SCS. Projects are defined as authentic investigations of relevant, real world problems that teach higher order thinking skills. They teach collaboration, critical thinking, and communication. Projects are long-term investigations.

We currently have a student whose native language is German. She is using the language translation application on an iPad throughout the day to assist with her transition to becoming fluent in English.

2. Leadership: Michigan Department of Education (MDE) will continue to provide leadership for educational technology by expanding and developing transformative learning environments that increase student academic achievement.

Technology acquisitions at HFA: SCS are planned and carried out with 21st Century learning in mind. The tools we provide to staff and students provide the environment to increase creativity, innovation, problem solving and digital literacy. Toward this goal, the entire campus has wireless connectivity, allowing Internet use wherever needed at any time. Each learning studio is equipped with a ceiling-mounted digital projector to assist teachers in providing visual materials.

Students have the opportunity to responsibly handle equipment as they learn to effectively use the tools to explore academic material.

Planned uses of technology include using interactive whiteboard student response systems, and student response via iPad. We are currently reviewing the iPad application Socrative, which includes quizzes and games requiring student response in both individual and group format. We are also seeking to add the use of Kindle Fires in ELA classes.

Recently, HFA: SCS High School students had the opportunity to participate in the “One Million Bones” social arts practice. The goal of the project is to raise awareness of genocide around the globe. The project curriculum promotes cross-curricular learning encompassing: Social Studies, Political Science, World Literature, Art and Design, Community Service, Science and Math. Students used technology to view a personalized video podcast from the project’s founder, as well as to digitally document their work.

3. Professional Learning: Michigan educators will have competencies in 21st Century Skills, especially information and media fluency, to enable the transformation of teaching and learning to improve student achievement.

HFA: SCS staff will receive continuous technology training to equip them to educate students in using up-to-date technology. Staff receives training in the following forms:

MAPSA conferences
MACUL workshops as applicable
In-school Professional Development
Testing methodologies training (MAP, MEAP)
Assistance from College for Creative Studies students and staff

Plans for staff training over the duration of this technology plan include training in the following areas:

Promethean boards
iPads in education
Audio/Video production
Effective Internet use in a Web 2.0 environment
Adobe CS5
Kindle Fires

4. *School and Community Relations:* Michigan school board members, parents, and community members will understand the impact educational technology, including virtual learning options and data have on informing and improving instruction. Schools, parents, and community members will be able to access and use school- level data to make meaningful decisions related to the education of all Michigan children.

HFA: SCS parents receive communication from the school via several methods:

Traditional Mailings

Powerschool Parent Access: Parent Access is created for each student at the beginning of the school year, and provided to the parents. Parents are able to log in via Internet access and view students' grades and attendance, and set up regular email schedules to communicate with teachers.

School Messenger

Parents will receive automated calls regarding student attendance and building notifications, such as snow days.

Email

Mass emails are sent out as appropriate to augment traditional communication.

Web Site

The school web site is available to the public. The address is: *hfascscs.org*.

Parents also receive the results of MAP tests. Grades 6-9 take the MAP (Measures of Academic Progress) Assessment in the fall, and again in the spring. This assessment projects a student's performance on the MEAP, and provides goals individualized for each student based on their results. Teachers and parents are thus informed of the areas in which students' skills need strengthening.

HFA: SCS does not have any adult education, ESL or GED certification programs. Our students access these services through our ISD, Wayne RESA.

5. *Data and Information Management:* Michigan educators will have access to data for effective classroom decision making and school improvement planning through an integrated local and statewide decision support system, and have access to professional learning opportunities to develop competencies in data-driven decision making.

MAP Test results (referred to in the previous section) are available to teachers. Teachers can view results for their students, and make informed decisions regarding classroom content. Results and help are available at NWEA.org.

HFA: SCS has instituted an annual Data Summit to aid in school improvement planning. Data is presented summarizing levels of: Attendance, GPA Averages, Discipline Data, MAP, MEAP, PLAN and EXPLORE test results, and student demographics. The entire staff reviews and analyzes this data to determine whether school improvement plan goals are being met, and/or need to be revised.

HFA: SCS uses PowerSchool for student information management. Through PowerSchool's reporting capabilities, student achievement, attendance, and demographics can be tracked and analyzed. We have also signed up for self-paced online training, which will allow staff members to explore their options and learn to use the system most effectively.

Future plans include intranet access to a repository of instructional documents, which will allow staff to review items that are covered over time. This repository will include instructions for using their web-based gradebook, as well as hardware and software instructions and tips.

Funding and Budget

Category	2011-2012	2012-2013	2013-2014
Salary and Benefits	77,000	77,772	78,727
Hardware and Network	31,000	31,000	31,000
Maintenance and Service	159,422	159,422	159,422

Coordination of Resources

When possible, resources are leveraged across HFLI-managed sites. The other locations included in this category are HFA Dearborn, Powerhouse High in Chicago, and the Alameda School in San Antonio.

HFA: SCS received a technology implementation grant in 2010 that resulted in purchases as listed below:

Item Description	Manufacturer	Model	Quantity
High-End Digital SLR Camera	Canon	EOS Rebel	2
High-End Digital Video Camera	Canon	HF-S20	6
Standard Digital Video Camera	Canon	HFR10	8
Digital Still Camera	Canon	Powershot	12
Poster Printer	HP	DesignJet 510, 42"	1
Classroom Audio System	Lightspeed	RC-LL	4
iPad Cart System	Apple	iPad 2 cart	1
iPad 2 with cover	Apple	iPad 2	32
Apple TV Component	Apple	A1378	2
Pen Tablets	Wacom	Intuos4	28
Audio Production Package	M-Audio		1
Video Production Package	Lowel		
Document Cameras	Panasonic	P30s	3
Loss Prevention Software	Undercover	N/A (licenses)	200
Animation Software	iStop Motion	N/A (site license)	1

Monitoring and Evaluation

Effectiveness of instruction, including the use of technology, is monitored on an ongoing basis. Classroom observations are performed on a regular basis by the Director of Curriculum and Instruction and the Principal, and improvement plans are implemented as needed. Academic performance is also measured and reviewed as part of our data summit. MAP testing is completed in Fall and Spring, which measures students' academic progress during the year, and along the course of successive years.

TECHNOLOGY CODE OF CONDUCT

Students and parents will sign a Technology Code of Conduct Contract in order for students to utilize the many modes of technology available to HFA: SCS. The use of technology is a privilege extended to HFA: SCS students to enhance learning and exchange information. Parents and students should understand and agree to abide by the Technology Code of Conduct and further understand that HFA: SCS assumes no responsibility for the student's communications while using such technology. **However, students will be held accountable for using our school name or logo in a defaming manner online or in any other manner.** In addition, financial restitution will be required for loss, theft, damage and/or unauthorized use.

The use of logos, trademarks, paraphernalia, or other recognizable landmarks of HFA: SCS or CCS may not be used outside of school assignments in pictures, websites, videos, etc. without written permission from Administration. This includes but is not limited to websites such as Facebook, MySpace and YouTube.

INTERNET & COMPUTER USE

HFA: SCS computer network is provided for students to conduct research, complete assignments, and communicate with others. Access to network services is given to students who agree to act in a considerate and responsible manner. Parent permission is required! Access is a privilege – not a right. Access entails responsibility. Students are responsible for good behavior using the computers just as they are in a classroom or school hallway. Computer network storage (hard drives and personal folders) may be treated like school lockers. Network administrators and teachers may review files and communications to maintain system integrity and ensure that users are using the system responsibly.

The following misuses of the computer system are not permitted:

- Sending and/or displaying hateful or pornographic messages or pictures
- Using abusive, threatening or inappropriate language
- **Cyber-bullying (i.e. harassing, intimidating, insulting or attacking others) through the use of email, Facebook, or any other social network sites**
- Engaging in or promoting violence
- Engaging in racial, gender, or other slurs
- Receiving or transmitting information pertaining to weapons, such as bombs, automatic weapons, illicit firearms or explosive devices.
- Damaging technology equipment (computer systems, computer networks, TVs, VCRs, digital cameras, scanners, etc.)
- Violating copyright laws (copy internet or other materials without permission)
- Using others' passwords
- Trespassing in other students and/or teacher' folders, work or files
- Intentionally wasting limited resources
- Employing the computer network for commercial purposes
- Transmitting personal information without written parental consent
- Accessing areas considered borderline without written parental consent
- Hacking (attempt to gain unauthorized access to files, folders, and/or other systems)

**Violations will result in loss of computer use as well as other disciplinary or legal action.*

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Technology Curriculum Integration Timeline w/Professional Development

June 2011

- Training with summer school teachers on how to use Kindle Fires in ELA summer enrichment courses
- Kindle Fires used to increase student engagement in summer school ELA enrichment courses
- Training for teachers to implement Carnegie Learning/Renaissance Learning Software
- Online Software used for Math Enrichment: Carnegie Learning/Renaissance Learning

August 2011

- Smart Board Training Part One for teachers in core subjects---ELA, Math, Science, Social Studies
- Adobe Suite Training for all Art Teachers
- Introduce Media Lab to All Staff
- Train teachers to use “clickers” i.e. student response systems

September-December 2012

- One teacher per grade level (6-12) begins using Smart Board technology
- Students in grades 8, 11, 12 use Adobe Suite
- 9th Grade students use Geometer’s Sketchpad
- 7th Grade Students building Wikispaces in Social Studies
- 6-12 using iMovie, keynote in core subjects
- Media Lab available for student use, 12th grade elective course
- Student Response systems used in Math classes
- Online Software used for Math Title I: Carnegie Learning/Renaissance Learning
- Ongoing use of projectors, Elmos for instruction

January 2012-June 2012

- Smart Board Training Part Two (January)---All Instructional Staff
- 6-12 using iMovie, keynote in core subjects
- Media Lab available for student use, 12th grade elective course
- Student Response systems used in Math classes
- Students in grades 8, 11, 12 use Adobe Suite
- Online Software used for Math Title I: Carnegie Learning/Renaissance Learning
- E20-20 Online Credit Recovery Courses Offered to all HS students
- Ongoing use of projectors, Elmos for instructions
- iPads piloted in 8th grade Social Studies

August 2012

- Smart Board Training Part One for teachers in core subjects---ELA, Math, Science, Social Studies
- Adobe Suite Training for all Art Teachers
- Introduce Media Lab to All Staff
- Train teachers to use “clickers” i.e. student response systems
- Social Studies teacher shares results of iPad pilot to staff

September-January 2013

- Core Content Teachers use Smart Board technology
- Students in grades 8, 11, 12 use Adobe Suite
- 9th Grade students use Geometer’s Sketchpad
- 7th Grade Students building Wikispaces in Social Studies
- 6-12 using iMovie, keynote in core subjects
- Media Lab available for student use, 12th grade elective course
- Student Response systems used in Math classes
- Online Software used for Math Title I: Carnegie Learning/Renaissance Learning
- Ongoing use of projectors, Elmos for instruction
- Art Students keep a digital portfolio of their work
- Teachers propose how to incorporate iPads in their units based on results of pilot; one teacher can use class set each quarter for a grade level project

January 2013-June 2013

- Smart Board Training Part Two (January)---All Instructional Staff
- 6-12 using iMovie, keynote in core subjects
- Media Lab available for student use, 12th grade elective course
- Student Response systems used in Math classes
- Students in grades 8, 11, 12 use Adobe Suite
- Online Software used for Math Title I: Carnegie Learning/Renaissance Learning
- E20-20 Online Credit Recovery Courses Offered to all HS students
- Ongoing use of projectors, Elmos for instructions
- Art students keep a digital portfolio of their work
- Purchase more iPads for student use

August 2013

- Smart Board Training Part One for teachers in core subjects---ELA, Math, Science, Social Studies
- Adobe Suite Training for all Art Teachers
- Introduce Media Lab to All Staff
- Train teachers to use “clickers” i.e. student response systems

September-January 2014

- Core Content Teachers use Smart Board technology
- Students in grades 8, 11, 12 use Adobe Suite
- 9th Grade students use Geometer's Sketchpad
- 7th Grade Students building Wikispaces in Social Studies
- 6-12 using iMovie, keynote in core subjects
- Media Lab available for student use, 12th grade elective course
- Student Response systems used in Math classes
- Online Software used for Math Title I: Carnegie Learning/Renaissance Learning
- Ongoing use of projectors, Elmos for instruction
- Art Students keep a digital portfolio of their work
- iPads used once per quarter in each grade level

January 2014-June 2014

- Smart Board Training Part Two (January)---All Instructional Staff
- 6-12 using iMovie, keynote in core subjects
- Media Lab available for student use, 12th grade elective course
- Student Response systems used in Math classes
- Students in grades 8, 11, 12 use Adobe Suite
- Online Software used for Math Title I: Carnegie Learning/Renaissance Learning
- E20-20 Online Credit Recovery Courses Offered to all HS students
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