

REQUIRED SUBSTANTIVE COMPONENTS  
OF THE  
LOCAL SCHOOL DISTRICT TECHNOLOGY PLAN

Schools, school districts, and libraries that want to apply for Schools and Libraries support, commonly referred to as "E-rate," must first prepare a technology plan. Beginning with FY2011, technology plans are required only for Priority 2 services (Internal Connections and Basic Maintenance of Internal Connections). An approved technology plan sets out how information technology and telecommunications infrastructure will be used to achieve educational goals, specific curriculum reforms, or library service improvements.

A technology plan designed to improve education should cover the entire funding year (July 1 to June 30) but not more than three years. The plan must contain the following elements:

**Goals and realistic strategy for using telecommunications and information technology**

**A professional development strategy**

**An assessment of telecommunication services, hardware, software, and other services needed**

**Ongoing evaluation process**

**Policies**

The technology plan must be approved by a USAC-certified technology plan approver before discounted services can begin. The state is the certified technology plan approver for libraries and public schools. [www.usac.org](http://www.usac.org), August, 2011.

LEA/Charter Name: Currituck County Schools

LEA/Charter Number: 270

Superintendent Name: Allison Sholar

Superintendent Signature \_\_\_\_\_

Local Board Chair Name: Dr. William Dobney

Local Board Chair Signature: \_\_\_\_\_

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Currituck County Schools  
Technology Plan

2012-2014

Draft November 2011  
Final July 2012

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**References**

**LEA NAME**  
**Technology Planning Committee/MTAC**

**Member**

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Donna Corbo  
Shelly Haskell  
Annette Samborski  
Teresa Burnett  
Nina Sannes  
Virginia Arrington  
Kathryn Blades  
Mary Simmons  
Paul OBriant  
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Patti Castle

**Job Title/Position**

Assistant Principal  
Media Specialist  
Teacher  
Parent  
Teacher Assistant  
Student  
Principal  
Media Specialist  
Media Specialist  
CIO  
Network Engineer  
Technician

**Currituck County Schools Technology Plan  
2012-2014**

**Vision Statement**

Students, teachers, and other employees of the Currituck County School District will have ready access to any technology tools needed for teaching, learning, and business operations. Professional development will always be available and provided “just in time.” Hardware, software, and connectivity problems will be corrected immediately so the impact on the user is negligible.

**Currituck County Schools Technology Plan  
Strategic Priorities  
2012 - 2014**

**Shared Services Model**

**Universal Access to Personal Teaching and Learning Devices**

**Access to Digital Teaching and Learning Resources, Including Digital Textbooks**

**Model of Technology-Enabled Professional Development**

**21<sup>st</sup> Century Leadership for Currituck County Schools**

## **Strategic Priority 1: A Statewide Shared Services Model**

### ***Essential Questions for Currituck County Schools***

**How will we leverage collaborative purchasing to pay substantially less for technology services and platforms?**

**How can a Statewide Shared Services Model assist in shifting primary support from infrastructure to instructional needs?**

**How can a Statewide Shared Services Model enable increased infrastructure and technology efficiency and sustainability?**

**How can a Statewide Shared Services Model provide higher service reliability?**

**How can a Statewide Shared Services Model facilitate more strategic budgeting models for our LEA/Charter School?**

### ***Current Status and Moving Forward***

Technology staff is eagerly following the state efforts in the cloud computing area. We have already signed up to try the new filtering solution. If this proves adequate for our needs it could result in savings of approximately \$12,000 per year. We will also try the firewall initiative. While this would not result in an immediate savings it would allow staff to focus on other areas of concern and may eliminate some consulting fees in the future.

We expect participation in these and future statewide shared services models will result in increased savings and increased efficiency.

We currently purchase our desktop computers in bulk from the refurbished market. This has resulted in savings of approximately 50% of the cost of new computers.

**Alignment to Other Plans and Initiatives:**  
**Strategic Priority 1: A Statewide Shared Services Model**  
**Currituck County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...**

**ACRE**

By participating in the shared services model offerings, our LEA/Charter will better prepare for the transition to online assessments, digital textbooks and universal access to personal teaching devices.

**Career and College Ready, Set, Go!**

Race to the Top Local and State Scopes of Work

**Other LEA initiatives/plans**

District Strategic Plan calls for interactive white boards in all classrooms and laptops for all teachers.

**1. Statewide Shared Services Model**

Goals/Targets	Year 1	Year 2	Yearly Evaluation
	July 1, 2012 – June 30, 2013	July 1, 2013 – June 30, 2014	Evaluation Method(s) DPI Use
Provide equitable and additional access to digital resources	Provide access to NC Wiseowl, SAS inSchool, Learn360, Thinkfinity, and other resources to all schools. CIO	Provide access to NC Wiseowl, SAS inSchool, Learn360, Thinkfinity, and other resources to all schools. CIO	AMTR, local surveys
Promote/maintain innovative funding model by utilizing NCEdCloud offerings and alternatives	Evaluate Cloud service options for most cost efficient and best service solutions. Implement those that are effective and efficient. CIO	Evaluate Cloud service options for most cost efficient and best service solutions. Implement those that are effective and efficient. CIO	Evaluation Reports



<p><b>Provide content filtering in accordance with the Children's Internet Protection Act (CIPA).</b></p>	<p>Continue to implement content filtering through a local solution or the NC Education Cloud CIO</p>	<p>Continue to implement content filtering through a local solution or the NC Education Cloud CIO</p>
<p><b>Maximize E-rate in support of instructional programs</b></p>	<p>File for e-rate discounts annually on WAN services, Internet access, cellular phones service including cellular data access, local and long distance phone service and other eligible services. CIO</p>	<p>File for e-rate discounts annually on WAN services, Internet access, cellular phones service including cellular data access, local and long distance phone service and other eligible services. CIO</p>
<p><b>Continue to upgrade Internet access, WAN services, and LAN services to accommodate the increasing demand of digital resources</b></p>	<p>Upgrade of all switches that are end of life and more than 6 years old. CIO, Network administrator</p>	<p>Analysis of network traffic to determine usage and speed to determine what upgrades are necessary, ie, switches, incoming Metro-E, etc CIO, Network administrator</p>
<p><b>Continue to refresh desktop and laptop computers with models that are sufficient for current and future needs</b></p>	<p>Develop a comprehensive refresh plan with cost estimates</p>	<p>Implement refresh plan CIO, Network administrator Refresh plan, purchase orders</p>

## **Strategic Priority 2: Universal Access to Personal Teaching and Learning Devices**

### ***Essential Questions***

**What is universal access to personal teaching and learning devices?**

**Why do our teachers and students need access to personal teaching and learning devices?**

**How will we provide ample access to individual teaching and learning devices?**

**What models can be used for implementing universal access to personal teaching and learning devices in Currituck County Schools.**

### ***Current Status and Moving Forward***

In December 2011 and January 2012 the Chief Information Officer met with school staff at each school in the district. In every school universal access to personal teaching and learning devices was identified as a priority.

We currently have an ongoing 1:1 project at the J.P. Knapp Early College High School using Dell netbooks. This is the fourth year of the project and it has been successful.

As we plan to move to more universal access we will evaluate and upgrade our infrastructure as necessary to support universal access. We will also pilot various devices, Ipads, Ipods, laptops, netbooks, and Android devices, to determine the advantages and limitations of each device.

We will also continue to advocate for personnel to support the increased number of devices in the field.

**Alignment to Other Plans and Initiatives:**

**Strategic Priority 2: Universal Access to Personal Teaching and Learning Devices**

**Currituck County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...**

**ACRE**

**Personal Devices will allow students to access the IIS and online assessments  
Career and College Ready, Set, Go!**

**Race to the Top Local Scope of Work**

**Objective (C)(3) 1.2 Utilize technology funds to enhance school and LEA technology infrastructure to facilitate online real-time assessments at each school.**

**Priority 2: Universal Access to Personal Teaching and Learning Devices**

<b>Suggested Goals/Targets</b>	<b>Year 1 July 1, 2012 – June 30, 2013</b>	<b>Year 2 July 1, 2013 – June 30, 2014</b>	<b>Yearly Evaluation</b>	
			<b>Evaluation Method(s)</b>	<b>DPI Use</b>
<b>Ensure infrastructure will support universal access</b>	Evaluate wireless networks and upgrade as required to support universal access	Continue to evaluate wireless networks and upgrade as required to support universal access	Purchase orders, Wireless surveys, Network monitoring reports	
<b>Evaluate personal teaching and learning devices</b>	Purchase and deploy various personal devices to evaluate effectiveness	Continue to purchase and deploy personal devices based on results of evaluations	Evaluation reports, purchase orders, AMTR	
<b>Develop a comprehensive sustainable LEA plan for universal access.</b>	Develop sustainable comprehensive plan for universal access CIO, MTAC	Implement Plan CIO, MTAC	Plan, Implementation reports	

<p><b>Advocate for adequate personnel as identified in the comprehensive plan to support universal access</b></p>	<p>Submit budget request with justification for personnel</p>	<p>Submit budget requests with justification for personnel</p>	<p>Budget requests</p>
<p><b>Communicate plan to all stakeholders.</b></p>	<p>Communicate plan via website, Alert Now, local news. CIO</p>	<p>Update various publics on plan implementation</p>	<p>Plan, copies of communications</p>

## **Strategic Priority 3: Statewide Access to Digital Teaching and Learning Resources, Including Digital Textbooks**

### *Essential Questions*

**What are digital teaching and learning resources? What are digital textbooks?**

**Why do teachers and students need access to digital teaching and learning devices?**

**What are the benefits of digital textbooks?**

**What are open educational resources and how can they be used?**

**How can access to these resources be increased in Currituck County Schools?**

### *Current Status and Moving Forward*

Digital teaching and learning resources include digital textbooks, online original source documents, commercial video productions, instructional software, etc. We currently utilize Learn360, NC Wise Owl, Thinkfinity, SAS in School, and various other digital resources.

Many of our current textbooks come with digital resources, either a full text book or supplementary material. We are eager to explore the new digital textbook initiative announced by Apple. We are also exploring open source products. We expect open source textbooks, particularly in the common core areas to flourish in the next one to three years.

Access to these resources is currently limited due to the unavailability of personal learning devices.

**Alignment to Other Plans and Initiatives:**  
**Strategic Priority 3: Statewide Access to Digital Teaching and Learning Resources, Including Digital Textbooks**  
**Currituck County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...**

**ACRE**

**Career and College Ready, Set, Go!**

**Race to the Top Local and State Scopes of Work**  
**Objective (C)(3) 1.4 Work as partners with DPI staff to incorporate the IIS into the daily operational aspects of school**

**3: Statewide Access to Digital Teaching and Learning Resources, Including Digital Textbooks**

Suggested Goals/Targets	Year 1 July 1, 2012 – June 30, 2013	Year 2 July 1, 2013 – June 30, 2014	Yearly Evaluation	
			Evaluation Methods(s)	DPI Use
<b>Shift from traditional print and paper-based resources to affordable, current online resources</b>	Explore online resources that can be used to replace text books. CIO/RttT curriculum teams	Begin using online resources to replace textbooks. CIO/RttT curriculum teams	Evaluation reports, use reports	
<b>Utilize procured resources such as NC WiseOwl, and other open education resources</b>	Develop a clearinghouse of online instructional resources tied to curriculum objectives. CIO/RttT Curriculum Teams	Maintain and update clearinghouse of instructional resources tied to curriculum objectives. CIO/RttT Curriculum Teams	Local surveys	
<b>Use digital content aligned specifically to Common Core and NC Essential Standards</b>	Increase the number of personal learning devices to prepare for use of the IIS.	Utilize the IIS when it comes online CIO/Curriculum Leaders	Purchase orders, IIS logs	

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CIO

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## **Strategic Priority 4: A Statewide Model of Technology-Enabled Professional Development**

### ***Essential Questions***

**What skills are needed to transition to digital teaching and learning resources?**

**How can these skills be delivered and sustained to our LEA teachers and administrators?**

**How do teachers, administrators, and staff work with colleagues to guide our LEA toward more effective uses of 21st Century tools for teaching, learning, and managing instruction?**

**How are teachers, administrators, and staff prepared to understand, implement, and assess the span of skills and processes that students need to succeed in the 21st Century?**

**How are teachers, administrators, and staff prepared to apply 21st Century assessment systems to inform instruction and measure 21st Century knowledge, skills, performance, and dispositions?**

### ***Current Status and Moving Forward***

We have had an emphasis on Professional development this year as we prepare for the Common Core and Essential Standards. PD has focused on content and on teaching methods to promote 21<sup>st</sup> Century Skills.

All staff have completed NC Falcon on formative assessment. We utilize ClassScape and EdTech Systems assessment software for formative and benchmark assessments. We administer the majority of our EOC assessments online.

We are currently providing an Online Technology Academy for our staff. This is anytime/anywhere training delivered online. It includes units on the Information and Technology Essential Standards, ties to Common Core and other Essential Standards, and connections to the Professional Teaching Standards. We will continue to offer this PD opportunity.



**Alignment to Other Plans and Initiatives:  
Strategic Priority 4: A Statewide Model of Technology-Enabled Professional Development**

Currituck County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...

**ACRE**

**Career and College Ready, Set, Go!**

**Race to the Top Local and State Scopes of Work**

**Objective (C)(3) 1.3 Designate current staff to help educators utilize EVAAS and assessment data for instructional and program decision making.**

**4: A Statewide Model of Technology-Enabled Professional Development**

Suggested Goals/Targets	Year 1	Year 2	Yearly Evaluation
	July 1, 2012 – June 30, 2013	July 1, 2013 – June 30, 2014	Evaluation Method(s) DPI Use
Implement a plan for embedded technology-enabled professional development for teachers and administrators. Prepare media specialists and instructional technology facilitators to support digital reform.	Develop and implement plan for PD CIO/Assistant Superintendent Train Media Specialists on ITES CIO	Revise and implement plan for PD CIO/Assistant Superintendent Provide continued PD through Media Specialist PLC time CIO	Sea System Logs and evaluation surveys, RttT evaluation data Agendas/Sea System logs/ PLC plans
Deliver Common Core and Essential Standards training to teachers using integrated technology as a model for further classroom integration.	Continue CC/ES training with teachers CIO/Assistant Superintendent	Continue CC/ES training with teachers CIO/Assistant Superintendent	Agendas/Sea System logs/ RttT evaluation data

## **Strategic Priority 5: 21st Century Leadership for All Schools and Districts**

### ***Essential Questions***

**Are your LEA/Charter leaders prepared to lead and create a vision for 21st century education?**

**Are mechanisms in place for school leaders to create 21st century learning cultures?**

**Are professional growth programs/opportunities available to prepare teachers and administrators to lead 21st century learning environments?**

### ***Current Status/Moving Forward***

Our LEA leaders have participated in 21<sup>st</sup> Century Skills training and will continue to do so. We will integrate 21<sup>st</sup> Century Skills and methods in our Principal's meeting and Curriculum and Instruction meetings.

**Alignment to Other Plans and Initiatives:**  
**Strategic Priority 5: 21st Century Leadership for All Schools and Districts**  
**Currituck County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...**

**ACRE**

**Career and College Ready, Set, Go!**

**Race to the Top Local and State Scopes of Work**  
**21<sup>st</sup> Century Leadership is a requirement in the new Principal's evaluation system**

**5: 21st Century Leadership for All Schools and Districts**

<b>Suggested Goals/Targets</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Yearly Evaluation</b>
	<b>July 1, 2012 – June 30, 2013</b>	<b>July 1, 2013 – June 30, 2014</b>	<b>Evaluation Method(s)</b> <b>DPI Use</b>
<b>Provide Internet Safety Training in all schools</b>	Develop and implement plans for Internet Safety Training CIO/SIT	Revise and implement plans for Internet Safety Training CIO/SIT	Schedules/Lesson Plans
<b>Create 21<sup>st</sup> century learning cultures</b>	Integrate 21 <sup>st</sup> Century Learning practices in Common Core and Essential Standards PD CIO, RttT Team	Integrate 21 <sup>st</sup> Century Learning practices in Common Core and Essential Standards PD CIO, RttT Team	Agendas LoFTI
<b>Prepare teachers and administrators to lead 21<sup>st</sup> century learning environments</b>	Integrate 21 <sup>st</sup> Century Learning practices in C&I and Principal meetings. CIO/Assistant Superintendent	Integrate 21 <sup>st</sup> Century Learning practices in C&I and Principal meetings. CIO/Assistant Superintendent	Agenda

**Appendix A: Policies and Procedures  
Currituck County Schools Technology Plan  
Policy, Procedure, & Guidelines Implementation Chart**

Policies, Procedures, & Guidelines	LEA Policy Code or Procedure	LEA Adoption, Implementation or Revision Date
<b>Policies Required</b>		
A. Materials Selection Policy including internet resources ( <a href="#">GS §115c-98(b)</a> )	3200	3/12/2012
B. Disposal of Equipment / Replacement of Obsolete Equipment ( <a href="#">GS §115c-518</a> )	3220	3/12/2012
C. Hardware and Software Procurement ( <a href="#">GS § 115c-522</a> , <a href="#">115c-522.1</a> )	3220	3/12/2012
D. Copyright and Plagiarism Policy ( <a href="#">PL §94-553</a> , <a href="#">90 Stat. 2541</a> ),	3230	3/12/2012
E. Acceptable Use Policy ( <a href="#">PL §106-554</a> )	3225	3/12/2012
F. Equipment/Materials Donation Policy ( <a href="#">GS §115C-518</a> )	3220	3/12/2012
G. Data Privacy Policy ( <a href="#">20 U.S.C. § 1232g</a> ; <a href="#">34 CFR Part 99 (FERPA)</a> )	4090	11/14/02
H. Inventory Control Policy ( <a href="#">GS §115c-539</a> , <a href="#">115c-102.6A-C(5)</a> )	7310	9/11/00
I. Access to Services Policy ( <a href="#">GS §115c-106.2</a> )	3520	8/8/2011
J. Online Assessment and Instruction Policy		
K. Advertising and Commercialism Policy ( <a href="#">GS §115c-98</a> )	3200	3/12/2012
L. Internet Safety and Ethical Use including Cyberbullying and Harassment ( <a href="#">Protecting Children in the 21<sup>st</sup> Century Act</a> , <a href="#">CIPA</a> , <a href="#">FERPA</a> , <a href="#">GS 115C-407</a> )	3225	3/12/2012
<b>Procedures</b>		
A. Hardware and Software Deployment	3220	3/12/2012
B. Equipment maintenance and repairs	3220	3/12/2012
C. Outdated Resources and Equipment Replacement	3220	3/12/2012
D. Disaster Recovery of Data and Hardware	6524	3/12/2012
E. Administration of Online Courses		
F. Administration of Online Assessment		
<b>Guidelines</b>		
A. Policy Translation		
B. Use of Digital Media and Resources	MT517	9/17/06
C. Instructional Use of Videos	MT219	7/1/06
D. Development of Online Resources		